XR-CA600/CA600V/CA600X

SERVICE MANUAL

AEP Model
UK Model

Ver 1.1 2001.05

Photo: XR-CA600X

Model Name Using Similar Mechanism	XR-C5300R
Tape Transport Mechanism Type	MG-25G-136

SPECIFICATIONS

Cassette Player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 18,000 Hz
Signal-to-noise ratio	

Cassette type	
TYPE II, IV	61 dB
TYPE I	58 dB

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	
	0.6 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

General

Outputs	Audio outputs (Rear) Power aerial relay control lead Power amplifier control lead
Inputs	Telephone ATT control lead BUS control input connector BUS audio input connector Remote controller input connector Aerial input connector
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Loudness	100 Hz +8 dB 10 kHz +2 dB
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 176 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Note
This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO

9-870-246-12
2001E0500-1
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Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

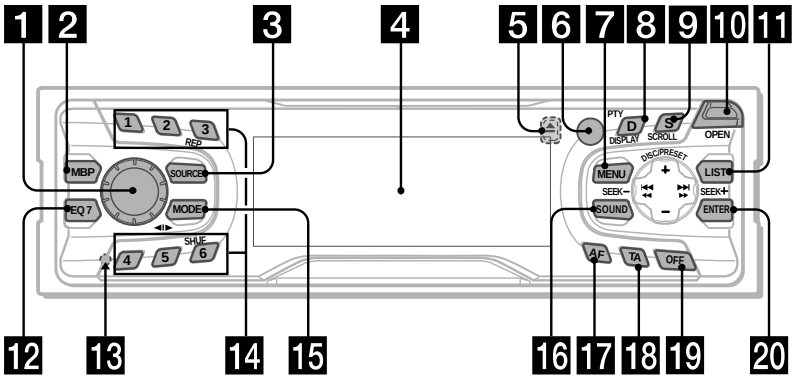
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SECTION 1
GENERAL

This section is extracted from instruction manual.

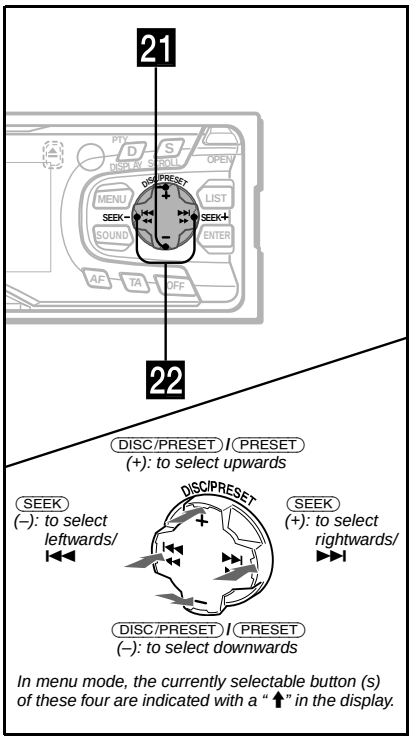
Location of controls

Refer to the pages listed for details.
TAPE: During tape playback RADIO: During radio reception MENU: During menu mode
CD/MD: During CD/MD playback (optional)



1 **Volume control dial** 13
2 **MBP button** 19
3 **SOURCE (Power on/Tape/Radio/CD/MD) button** 5, 9, 10, 11, 13, 19, 20, 22
4 **Display window**
5 **⏏ (eject) button** (located on the front side of the unit, behind the front panel) 9
6 **Receptor for the card remote commander**
7 **MENU button** 8, 9, 10, 14, 15, 18, 19, 20, 22, 23, 24
8 **DISPLAY/PTY (display mode change/programme type) button** 12, 15, 21, 22
9 **SCROLL button** 21
10 **OPEN button** 7, 9
11 **LIST button**
RADIO 11
CD/MD 22, 23
12 **EQ7 button** 19
13 **RESET button** (located on the front side of the unit, behind the front panel) 7
14 **Number buttons**
TAPE
(3) **REP** 9
RADIO 10, 11, 13, 14
CD/MD
(3) **REP** 21
(6) **SHUF** 21
15 **MODE (◀II▶) button**
TAPE 9
RADIO 10, 11, 13
CD/MD 20, 22
16 **SOUND button** 17, 19
17 **AF button** 12, 14
18 **TA button** 13, 14
19 **OFF (Stop/Power off) button*** 5, 7, 9, 20
20 **ENTER button**
RADIO 11, 14
MENU 8, 9, 10, 15, 18, 19, 20, 22, 23, 24
CD/MD 22, 23

* **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press (OFF) on the unit for 2 seconds to turn off the clock display.
Otherwise, the clock display does not turn off and this causes battery drain.



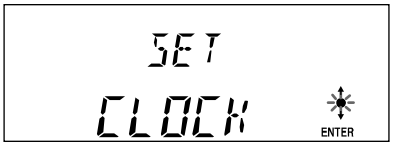
21 **DISC/PRESET buttons (+/–)**
RADIO *10, 11, 15*
MENU *8, 9, 10, 14, 15, 18, 19, 20, 22, 23, 24*
CD/MD *20, 22, 23*
22 **SEEK buttons (–/+)**
TAPE *9*
RADIO *10, 11, 13*
MENU *8, 9, 15, 17, 18, 19, 20, 24*
CD/MD *20, 22, 23*

Setting the clock

The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

1 Press (MENU), then press either side of (DISC/PRESET) or (PRESET) repeatedly until "CLOCK" appears.



❶ Press (ENTER).
The hour indication flashes.

❷ Press either side of (DISC/PRESET) or (PRESET) to set the hour.

❸ Press the (+) side of (SEEK).
The minute indication flashes.

❹ Press either side of (DISC/PRESET) or (PRESET) to set the minute.

2 Press (ENTER).

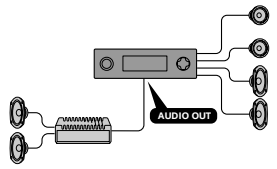
The clock starts. After the clock setting is completed, the display returns to normal play mode.

Tips

- *You can set the clock automatically with the RDS feature (page 15).*
- *When D.INFO mode is set to ON, the time is always displayed (page 18).*

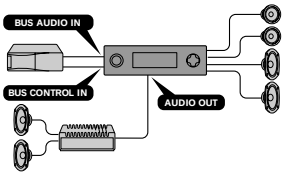
2

A

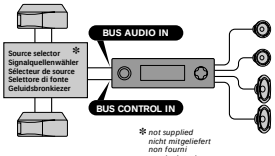


B **XR-CA600X/CA600V/CA600 only**
Nur XR-CA600X/CA600V/CA600
XR-CA600X/CA600V/CA600 seulement
Solo XR-CA600X/CA600V/CA600
Alleen voor de XR-CA600X/CA600V/CA600

a

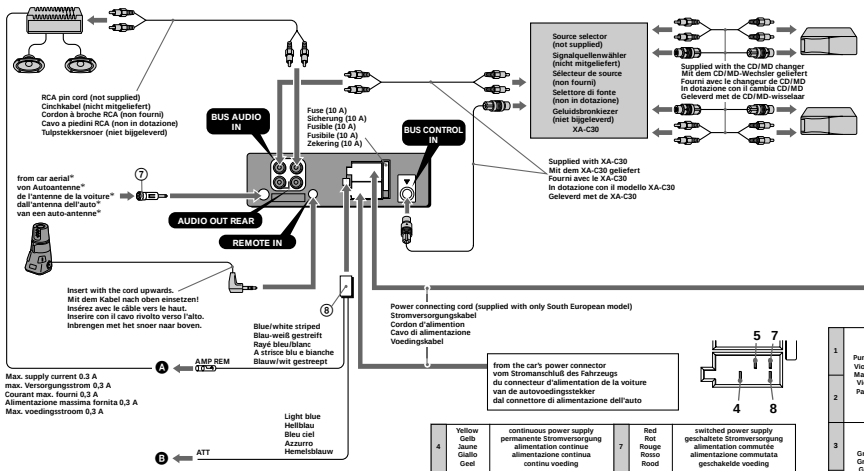


b



✻ *not supplied*
nicht mitgeliefert
non fourni
non in dotazione
niet bijgeleverd

3



* ***Note for the aerial connecting***
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor ⑦ to connect it. First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.

* ***Hinweis zum Anschließen der Antenne***
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mit Hilfe des mitgelieferten Adapters ⑦ an.
Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter, und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.

* ***Remarque sur le raccordement de l'antenne***
Si votre antenne de voiture est de type ISO (organisation internationale de normalisation), utilisez l'adaptateur fourni ⑦ pour la raccorder.
Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.

* ***Nota per il collegamento dell'antenna***
Se la vostra antenna della macchina è di tipo ISO (International Organization Standardization), utilizzare l'adattatore ⑦ in dotazione per collegarla.
Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.

* ***Opmerking bij de antenne-aansluiting***
Indien uw wagen is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adaptor ⑦.
Sluit eerst de auto-antenne aan op de meegeleverde adaptor en vervolgens de antennestekker op het hoofdtoestel.

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power aerial control Motorantenne antenne électrique comando dell'antenna elettrica automatische antenne	8	Black Schwarz Noir Nero Zwart	earth Masse masse terra aarding

Positions 1, 2, 3 and 6 do not have pins.
An Position 1, 2, 3 und 6 befinden sich keine Stifte.
Les positions 1, 2, 3 et 6 ne comportent pas de broches.
Le posizioni 1, 2, 3 e 6 non hanno piedini.
De posities 1, 2, 3 en 6 hebben geen pins.

1	Purple Violett Mauve Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		-	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		-	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Grey Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		-	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		-	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped cords.
An den negativ gepolten Positionen (2, 4, 6 und 8) befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De negatieve posities 2, 4, 6 en 8 hebben gestreepte kabels.

XR-CA600/CA600V/CA600X

Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Do not get the wires under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power connecting cord (not supplied) to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all earth wires to a common earth point.**
- Be sure to insulate any loose unconnected wires with electrical tape for safety.

Notes on the power supply cord (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

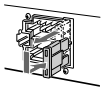
Power connection

Power connectors may vary depending on the car. Check your car's power connector diagram to make sure the connections match correctly. There are two basic types. You may need to switch the positions of the jump connector. Before connecting the unit to the car's power supply, be sure to match the position of the jump connector to the car's pin order. If the power connector of your car does not match the connector on the unit, use the connector (not supplied). If you have any questions or problems connecting your unit that are not covered in this manual, please consult the car dealer.

WARNING

Shifting the fuse

Check the pin position of the power connector of the car with the table on the below. If positions 4 and 7 are reversed, remove the fuse and shift it to the lower position as shown in the illustration.

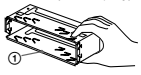


Parts list (1)

The numbers in the list are keyed to those in the instructions.

Caution

Handle the bracket ① carefully to avoid injuring your fingers.



Connection example (2)

***Notes* (2-A,-B-, D)**

- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

***Tip* (2-B-, D)**

For connecting two or more changers, the source selector XA-C30 (optional) is necessary.

Connection diagram (3)

A To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

B To the interface cable of a car telephone

Warning

If you have a power aerial without a relay box, connecting this unit with the power connecting cord (not supplied) may damage the aerial.

Notes on the control leads

- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation), AF (Alternative Frequency) or the TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rearside glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*

Vorsicht

- Dieses Gerät ist ausschließlich für den Betrieb bei 12 V Gleichstrom (negative Erdung) bestimmt.
- Achten Sie darauf, daß die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z. B. in einer Sitzschiene eingeklemmt werden.
- Schalten Sie, bevor Sie irgendwelche Anschlüsse vornehmen, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungskabel (nicht mitgeliefert) mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Hilfsstromanschluß verbinden.
- **Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.**
- Aus Sicherheitsgründen müssen alle losen, nicht angeschlossenen Drähte mit Isolierband absolliert werden.

Hinweise zum Stromversorgungskabel (gelb)

- Wenn Sie dieses Gerät zusammen mit anderen Stereokomponenten anschließen, muß der Autostromkreis, an den die Geräte angeschlossen sind, eine höhere Leistung aufweisen als die Summe der Sicherungen der einzelnen Komponenten.
- Wenn kein Autostromkreis eine so hohe Leistung aufweist, schließen Sie das Gerät direkt an die Batterie an.

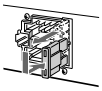
Stromanschluß

Die Stromanschlüsse verschiedener Fahrzeuge können sich voneinander unterscheiden. Überprüfen Sie anhand des Stromanschluß-Schaltplans des Fahrzeugs, ob die Anschlüsse übereinstimmen. Es gibt zwei Grundtypen. Sie müssen möglicherweise die Position des Überbrückungsanschlusses umschalten. Bevor Sie das Gerät an die Stromversorgung des Fahrzeugs anschließen, stellen Sie sicher, daß die Position des Überbrückungsanschlusses mit der Stiftbelegung des Fahrzeugs übereinstimmt. Wenn der Stromanschluß des Fahrzeugs nicht mit dem Anschluß am Gerät übereinstimmt, verwenden Sie Anschluß (nicht mitgeliefert). Sollten beim Anschließen des Geräts Fragen oder Probleme auftreten, auf die in dieser Anleitung nicht eingegangen wird, wenden Sie sich bitte an Ihren Autohändler.

ACHTUNG

Versetzen der Sicherung

Vergleichen Sie die Stiftposition des Stromanschlusses im Fahrzeug mit der folgenden Tabelle. Sind die Stiftpositionen 4 und 7 umgekehrt, entfernen Sie die Sicherung und bringen sie, wie in der Abbildung gezeigt, statt dessen unten an.

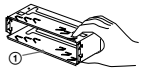


Teileliste (1)

Die Nummern in der Liste sind dieselben wie im Erläuterungstext.

Sicherheitshinweis

Seien Sie beim Umgang mit der Halterung ① vorsichtig, damit Sie sich nicht die Hände verletzen.



Anschlußbeispiel (2)

***Hinweise* (2-A,-B-, D)**

- *Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.*
- *Wenn Sie einen gesondert erhältlichen Endverstärker anschließen und den integrierten Verstärker nicht benutzen, wird der Signalton deaktiviert.*

***Tip* (2-B-, D)**

Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der gesondert erhältliche Signalquellenwähler XA-C30 benötigt.

Anschlußdiagramm (3)

A An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
Dieser Anschluß ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.

B An Schnittstellenkabel eines Autotelefons

Warnung

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem Stromversorgungskabel (nicht mitgeliefert) die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen

- *Die Motorantennen-Steuerleitung (blau) liefert + 12 V Gleichstrom, wenn Sie den Tuner einschalten oder die ATA- (Automatische Tuner-Aktivierung), die AF- (Alternativfrequenzsuche) bzw. die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluß des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers

Wenn das gelbe Stromversorgungskabel angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluß

- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis, und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da diese sonst beschädigt werden können.*

Précautions

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Evitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Branchez le cordon d'alimention (non fourni) sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation auxiliaire.
- **Rassemblez tous les fils de terre en un point de masse commun.**
- Veillez à isoler avec du chatterton tout fil lâche non raccordé.

Remarques sur le cordon d'alimentation (jaune)

- Lorsque cet appareil est raccordé à d'autres éléments stéréo, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

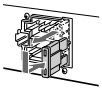
Raccordement de l'alimentation

Les connecteurs d'alimentation peuvent varier suivant le modèle de la voiture. Vérifiez le schéma du connecteur d'alimentation de votre voiture pour vérifier si les raccordements correspondent. On distingue deux types de base. Il se peut que vous deviez commuter les positions du cavalier. Avant de raccorder l'appareil à l'alimentation de la voiture, faites correspondre la position du cavalier à l'ordre des broches de la voiture. Si le connecteur d'alimentation de votre véhicule ne correspond pas au connecteur de l'appareil, utilisez le connecteur (non fourni). Si vous avez des questions ou des problèmes au sujet du raccordement de votre appareil qui ne sont pas abordés dans le présent mode d'emploi, consultez votre concessionnaire automobile.

AVERTISSEMENT

Décalage du fusible

Vérifiez la position des broches du connecteur d'alimentation de la voiture dans le tableau ci-dessous. Si les positions 4 et 7 sont inversées, retirez le fusible et décalez-le sur la position inférieure comme indiqué dans l'illustration.

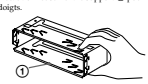


Liste des composants (1)

Les numéros de l'illustration correspondent à ceux des instructions.

Avertissement

Manipulez précautionneusement le support ① pour éviter de vous blesser aux doigts.



Exemple de raccordement (2)

***Remarques* (2-A,-B-, D)**

- *Raccordez d'abord le fil de masse avant de connecter l'amplificateur.*
- *Si vous raccordez un amplificateur de puissance indépendant et si vous n'utilisez pas l'amplificateur intégré, le bip sera désactivé.*

***Conseil* (2-B-, D)**

Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est indispensable.

Schémas de raccordement (3)

A Au niveau du AMP REMOTE IN d'un amplificateur de puissance en option
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.

B Vers le cordon de liaison d'un téléphone de voiture

Avertissement

Si vous disposez d'une antenne électrique sans relais, le raccordement de cet appareil avec le cordon d'alimentation (non fourni) peut endommager l'antenne.

Remarques sur les fils de contrôle

- *La sortie de commande de l'antenne (bleu) fournit du courant continu de +12 V lorsque vous allumez le sélecteur de canaux ou lorsque vous activez la fonction ATA (Activation automatique du syntoniseur), AF (fréquence alternative) ou TA (informations circulation).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW/LW intégrée dans la vitre arrière/latérale, raccordez la sortie de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la sauvegarde de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

- *Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.*
- *Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité de manipulation adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*

Attenzione

- Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
- Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide scorrevoli dei sedili).
- Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare cortocircuiti.
- Collegare il cavo di collegamento dell'alimentazione (non in dotazione) all'apparecchio e ai diffusori prima di collegarlo al ciascun componente.
- **Portare tutti i cavi di massa a un punto di massa comune.**
- Per motivi di sicurezza, isolare qualsiasi cavo non collegato mediante apposito nastro.

Note sul cavo di alimentazione (giallo)

- Se questo apparecchio viene collegato con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

Collegamento con l'alimentazione

I connettori di alimentazione possono essere diversi a seconda del tipo di automobile. Controllare il diagramma relativo al connettore di alimentazione della propria auto per assicurarsi che i collegamenti corrispondano perfettamente. Esistono due principali tipi di connettore di alimentazione. Potrebbe essere necessario cambiare le posizioni del connettore ponticello. Prima di collegare l'apparecchio all'alimentazione dell'auto, assicurarsi di far corrispondere la posizione del connettore ponticello all'ordine dei piedini dell'auto. Se il connettore di alimentazione dell'auto non è compatibile con quello dell'apparecchio, utilizzare il connettore (non in dotazione). In caso di domande o problemi relativi al collegamento dell'apparecchio non contemplati in questo manuale, contattare il rivenditore dell'automobile.

AVVERTENZA

Come spostare il fusibile

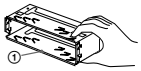
Controllare la posizione dei piedini del connettore di alimentazione dell'auto utilizzando la tabella in basso. Se i piedini 4 e 7 sono invertiti, rimuovere il fusibile e spostarlo nella posizione più in basso come mostrato nella figura.

Elenco dei componenti (1)

I numeri nella lista corrispondono a quelli riportati nelle istruzioni.

Attenzione

Maneggiare la staffa ① con cautela per evitare di ferirsi le mani.



Esempi di collegamento (2)

***Note* (2-A,-B-, D)**

- *Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.*
- *Se si effettua il collegamento di un amplificatore di potenza opzionale e l'amplificatore incorporato non viene utilizzato, il segnale acustico si disattiva.*

***Suggerimento* (2-B-, D)**

Per collegare due o più cambia CD/MD, si deve utilizzare il selettore di fonte XA-C30 (opzionale).

Schema di collegamento (3)

A A AMP REMOTE IN di un amplificatore di potenza opzionale
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

B Al cavo interfaccia di un telefono per auto

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione (non in dotazione), si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relè.

Note sul cavi di controllo

- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore o la funzione ATA (attivazione automatica sintonizzatore), AF (frequenza alternativa) o TA (notiziario sul traffico) .*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione opzionale al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile utilizzare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria

Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando la chiavetta di accensione è spenta.

Note sul collegamento dei diffusori

- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Utilizzare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali dell diffusore destro a quelli del diffusore sinistro.*
- *Non collegare i diffusori in parallelo.*
- *Non collegare alcun diffusore attivo (con amplificatore incorporato) ai terminali dei diffusori dell'apparecchio perché si potrebbero danneggiare i diffusori attivi. Assicurarsi di collegare diffusori passivi a questi terminali.*

Let op!

- Dit apparaat is ontworpen voor gebruik op gelijkstroom van een 12 Volts auto-accu, negatief geaard.
- Zorg ervoor dat de draden niet onder een schroef of tussen bewegende onderdelen (b.v. zetelrail) terechtkomen.
- Alvorens aansluitingen te verrichten moet u het contact afzetten om kortsluiting te vermijden.
- Sluit het netsnoer (niet meegeleverd) aan op het toestel en de luidsprekers vooraleer u het op de hulpvoedingsaansluiting aansluit.
- **Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.**
- Voorzie niet aangesloten draden om veiligheidsredenen altijd van isolatietape.

Opmerkingen bij de voedingskabel (geel)

- Wanneer u dit toestel aansluit samen met andere componenten, moet het vermogen van de aangesloten autostroomkring groter zijn dan de som van de de zekeringen van elke component afzonderlijk.
- Wanneer het vermogen ontoereikend is, moet u het toestel rechtstreeks aansluiten op de batterij.

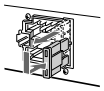
Voedingsaansluiting

Voedingsstekkers kunnen verschillen van auto tot auto. Controleer het voedingsschema van uw auto om na te gaan of de aansluitingen kloppen.
Er zijn twee basistypes. Eventueel moeten de posities van de jumpstekker worden omgewisseld. Alvorens het toestel aan te sluiten op de voeding van de auto, moet u controleren of de jumpstekkerpositie overeenkomt met de pinvolgorde. Gebruik de stekker (niet meegeleverd) indien de voedingsstekker van uw auto niet past op de stekker van het toestel. Voor alle vragen en problemen in verband met het toestel kunt u terecht bij uw autodealer.

WAARSCHUWING

Verplaatsen van de zekering

Vergelijk de pinpositie van de voedingsstekker in de auto met de onderstaande tabel. Als de posities 4 en 7 omgekeerd zijn, moet u de zekering verwijderen en deze in de onderste positie aanbrengen zoals aangegeven in de afbeelding.

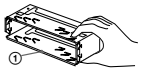


Onderdelenlijst (1)

De nummers in de afbeelding verwijzen naar die in de montage-aanwijzingen.

Opgelet

Houd de beugel ① voorzichtig vast zodat u uw vingers niet verwondt.



Voorbeeldaansluitingen (2)

***Opmerkingen* (2-A,-B-, D)**

- *Sluit eerst de massakabel aan alvorens de versterker aan te sluiten.*
- *Wanneer u een los verkrijgbare vermogensversterker aansluit en de ingebouwde versterker niet gebruikt, wordt de pieptoon uitgeschakeld.*

***Tip* (2-B-, D)**

Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de geluidsbronkiezer XA-C30 (optioneel) nodig.

Aansluitschema (3)

A Naar AMP REMOTE IN van een los verkrijgbare vermogensversterker
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het toestel worden beschadigd.

B Naar het interface-snoer van een autotelefoon

Opgelet

Indien u beschikt over een elektrische antenne zonder relaiskast, kan de antenne worden beschadigd wanneer u dit toestel aansluit met behulp van de voedingskabel (niet meegeleverd).

Opmerking betreffende de aansluitsnoeren

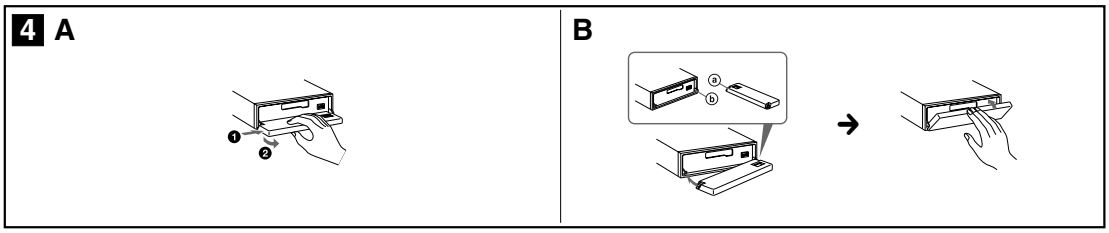
- *De antennevoedingskabel (blauw) levert +12 V gelijkstroom als de tuner wordt ingeschakeld of als de functie ATA (Automatische Tuner Activering), AF (Alternatieve Frequenties) of TA (verkeersinformatie) wordt geactiveerd.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/voorruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antennenversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken.*

Instandhouden van het geheugen

Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de luidsprekers

- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van het toestel. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*



Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.
- There must be a distance of at least 15 cm between the cassettes slot of the unit and shift lever to insert cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

How to detach and attach the front panel (4)

Before installing the unit, detach the front panel.

4-A To detach
Before detaching the front panel, be sure to press (OFF). Press (OPEN), then slide the front panel to the right side, and pull out the left side.

4-B To attach
Place the hole ⓐ in the front panel onto the spindle ⓑ on the unit as illustrated, then push the left side in.

Mounting example (5)

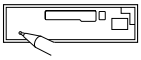
Installation in the dashboard

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.
When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

RESET button

When the installation and connections are completed, be sure to press the RESET button with a ballpoint pen, etc.



Vorsichtsmaßnahmen

- Wählen Sie den Einbauort sorgfältig so aus, daß das Gerät beim Fahren nicht hinderlich ist.
- Bauen Sie das Gerät so ein, daß es keinen hohen Temperaturen (keinem direkten Sonnenlicht, keiner Warmluft von der Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets nur die mitgelieferten Montageteile.
- Zwischen dem Kassettenfach des Geräts und dem Schalthebel des Fahrzeugs muß ein Abstand von mindestens 15 cm sein, damit eine Kassette mühelos eingelegt werden kann. Wählen Sie den Einbauort sorgfältig so aus, daß das Gerät beim Schalten nicht hinderlich ist.

Hinweis zum Montagewinkel
Das Gerät sollte in einem Winkel von weniger als 20° montiert werden.

Abnehmen und Anbringen der Frontplatte (4)

Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.

4-A Abnehmen
Drücken Sie auf jeden Fall (OFF), bevor Sie die Frontplatte abnehmen. Drücken Sie (OPEN), schieben Sie dann die Frontplatte nach rechts, und ziehen Sie sie an der linken Seite heraus.

4-B Anbringen
Setzen Sie die Aussparung ⓐ an der Frontplatte wie in der Abbildung dargestellt am Stift ⓑ am Gerät an, und drücken Sie dann die linke Seite hinein.

Anschlußbeispiel (5)

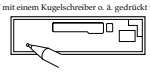
Installation im Armaturenbrett

Warnhinweis zur Installation des Geräts in einem Auto mit Zündschloß ohne Zubehörposition ACC oder I

Drücken Sie am Gerät unbedingt zwei Sekunden lang (OFF), um die Uhrzeitanzeige auszuschalten, nachdem Sie den Motor ausgeschaltet haben.
Wenn Sie (OFF) nur kurz drücken, wird die Uhrzeitanzeige nicht ausgeschaltet, und der Autobatterie wird Strom entzogen.

Taste RESET

Nach der Installation und dem Anschluß muß die Taste RESET mit einem Kugelschreiber o. ä. gedrückt werden.



Précautions

- Choisissez soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas la conduite normale du véhicule.
- Évitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.
- Pour pouvoir introduire aisément une cassette, il doit y avoir une distance d'au moins 15 cm entre le logement de la cassette de l'appareil et le levier de changement de vitesses. Choisissez soigneusement l'endroit de montage de telle façon que l'appareil ne gêne pas le maniement du changement de vitesses ou toute autre opération de conduite.

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

Retrait et pose de la façade (4)

Avant d'installer l'appareil, retirez la façade.

4-A Pour retirer
Avant de retirer la façade, n'oubliez pas d'appuyer d'abord sur (OFF). Appuyez sur (OPEN), puis faites glisser la façade vers la droite et retirez-la par la gauche.

4-B Pour poser
Fixez la partie ⓐ de la façade sur la partie ⓑ de l'appareil, comme indiqué sur l'illustration, puis appuyez sur le côté gauche jusqu'au déclic.

Exemple de montage (5)

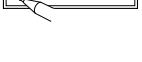
Installation dans le tableau de bord

Avertissement en cas d'installation dans une voiture dont le contact ne comporte pas de position ACC (accessoires)

Appuyez sur la touche (OFF) de l'appareil pendant deux secondes pour désactiver l'affichage de l'horloge après avoir coupé le moteur.
Si vous n'appuyez que brièvement sur (OFF), l'affichage de l'horloge ne disparaît pas, ce qui provoque la décharge de la batterie.

Touche RESET

Quand l'installation et les raccordements sont terminés, appuyez sur la touche RESET avec un stylo à bille, etc.



Precauzioni

- Scegliere con attenzione la posizione per l'installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporco e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.
- Per poter inserire una cassetta facilmente, è necessario che tra la fessura di inserimento della cassetta e la leva del cambio vi siano almeno 15 cm di distanza. Scegliere la posizione di installazione con attenzione in modo da non ostacolare l'uso del cambio né le altre operazioni di guida.

Regolazione dell'angolo di montaggio
Regolare l'angolo di montaggio in modo che sia inferiore a 20°.

Come rimuovere e reinserire il pannello anteriore (4)

Prima di installare l'apparecchio rimuovere il pannello anteriore.

4-A Per rimuoverlo
Prima di rimuovere il pannello anteriore, assicurarsi di premere (OFF). Premere (OPEN), quindi far scivolare il pannello anteriore verso destra e tirare il lato sinistro verso di sé.

4-B Per reinserirlo
Applicare il foro ⓐ del pannello anteriore al mandrino ⓑ dell'apparecchio come mostrato nell'illustrazione e premere il lato sinistro fino a sentire uno scatto.

Esempi di collegamento (5)

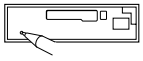
Installazione nel cruscotto

Informazioni importanti per quando si effettua l'installazione su un'auto sprovvista della posizione ACC sull'interruttore di accensione

Assicurarsi di premere (OFF) sull'apparecchio per due secondi per spegnere il display dell'orologio dopo che il motore è stato spento.
Se si preme (OFF) solo per un attimo, il display dell'orologio non si spegne causando in questo modo lo scaricamento della batteria.

Tasto RESET

Dopo avere terminato l'installazione e i collegamenti, assicurarsi di premere il tasto RESET con la punta di una penna a sfera o di un altro oggetto appuntito.



Voorzorgsmaatregelen

- Kies de installatieplaats zorgvuldig zodat het toestel de bestuurder niet hindert tijdens het rijden.
- Installeer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen, b.v. in direct zonlicht of bij de warme luchtstroom van de autoverwarming, aan sterke trillingen, of waar het in contact komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.
- De cassettegleuf van het toestel moet minstens 15 cm van de schakelpook af zitten om een cassette makkelijk te kunnen inbrengen. Kies de installatieplaats zorgvuldig zodat het toestel niet hindert bij het schakelen en andere rijhandelingen.

Maximale montagehoek
Installeer het apparaat nooit onder een hoek van meer dan 20° met het horizontale vlak.

Verwijderen en bevestigen van het afneembare voorpaneel (4)

Verwijder, alvorens met het installeren te beginnen, het afneembare voorpaneel.

4-A Verwijderen
Druk eerst op (OFF) alvorens het voorpaneel los te maken. Druk op (OPEN), schuif het voorpaneel naar rechts en trek het los aan de linkerkant.

4-B Bevestigen
Breng deel ⓐ van het voorpaneel aan op deel ⓑ van het apparaat zoals afgebeeld en druk op de linkerzijde tot deze vastklikt.

Voorbeeldaansluitingen (5)

Montage in het dashboard

Opgelet bij het monteren in een auto waarvan het contactslot geen ACC (accessory) stand heeft

Druk (OFF) op het toestel gedurende twee seconden in om de klokweergave uit te schakelen na het afzetten van de motor.
Indien u slechts even op (OFF) drukt, verdwijnt de tijdindicatie niet waardoor de batterij uitgeput raakt.

RESET-toets

Druk, nadat u het apparaat heeft geïnstalleerd en de aansluitingen heeft gemaakt, met een balpen of een ander puntig voorwerp op de RESET-toets.

SECTION 2
DISASSEMBLY

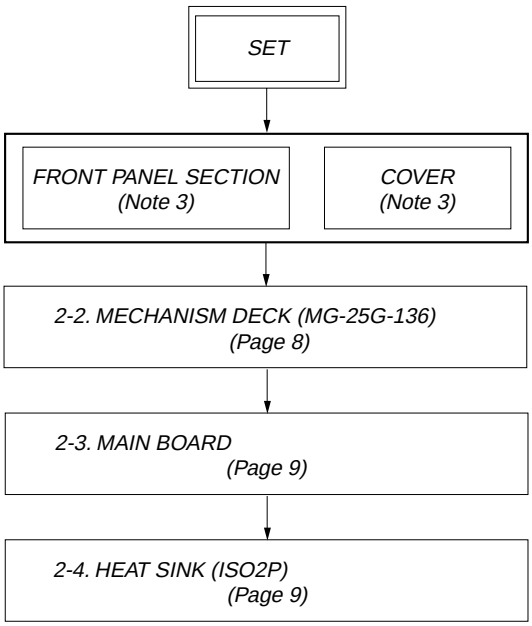
• This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

Note 1: *The process described in ⊟ can be performed in any order.*

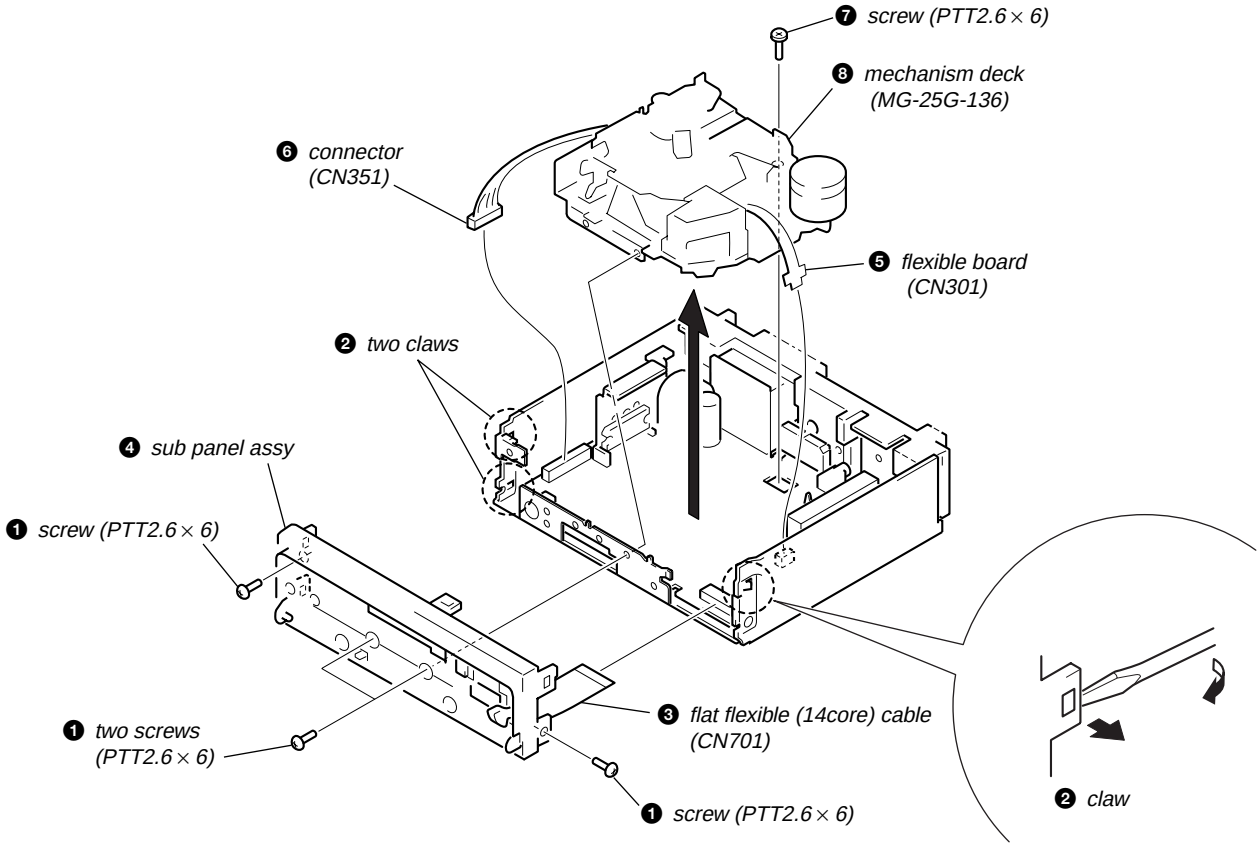
Note 2: *Without completing the process described in ⊟, the next process can not be performed.*

Note 3: *Illustration of disassembly is omitted.*

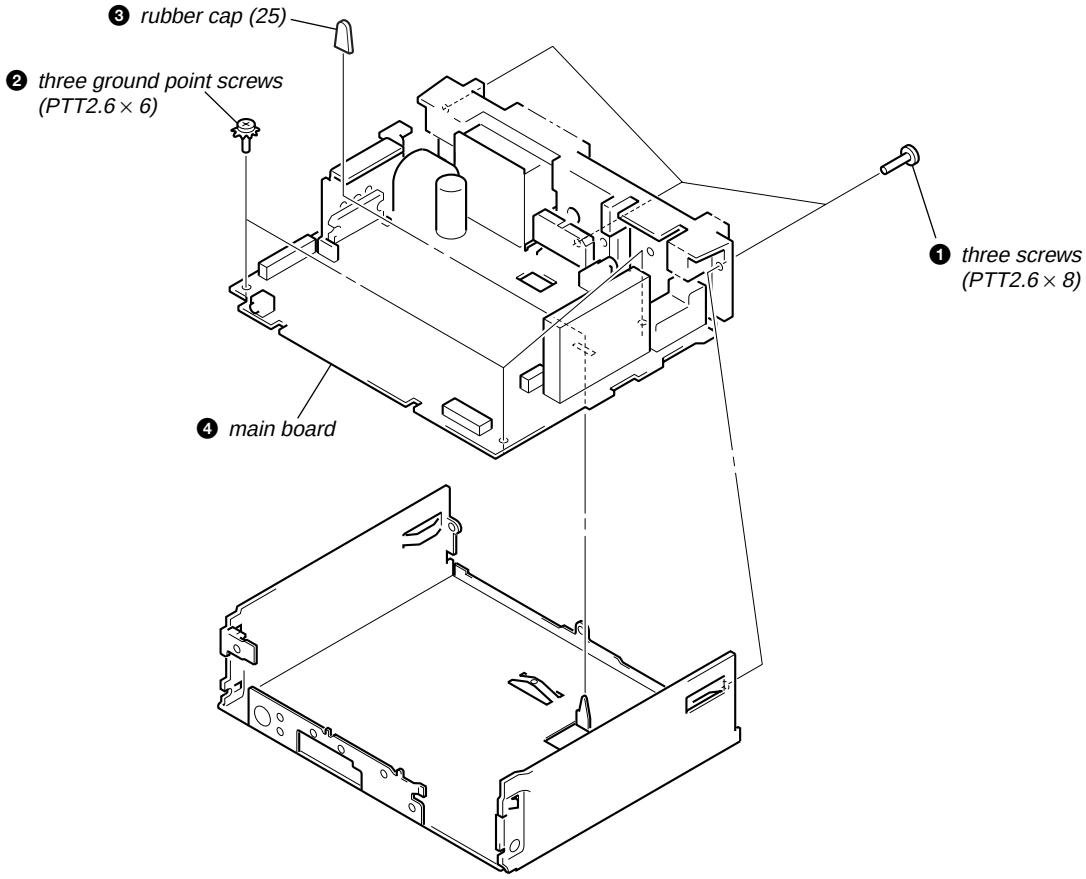


Note: Follow the disassembly procedure in the numerical order given.

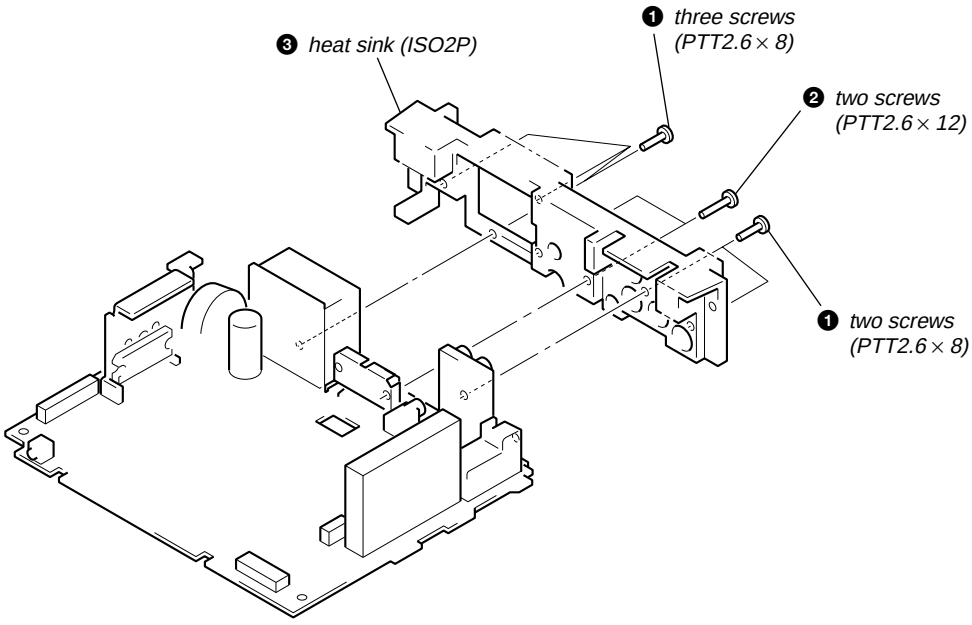
2-2. MECHANISM DECK (MG-25G-136)


❼ screw (PTT2.6 × 6)
❽ mechanism deck (MG-25G-136)
❻ connector (CN351)
❺ flexible board (CN301)
❷ two claws
❹ sub panel assy
❶ screw (PTT2.6 × 6)
❶ two screws (PTT2.6 × 6)
❸ flat flexible (14core) cable (CN701)
❶ screw (PTT2.6 × 6)
❷ claw

2-3. MAIN BOARD



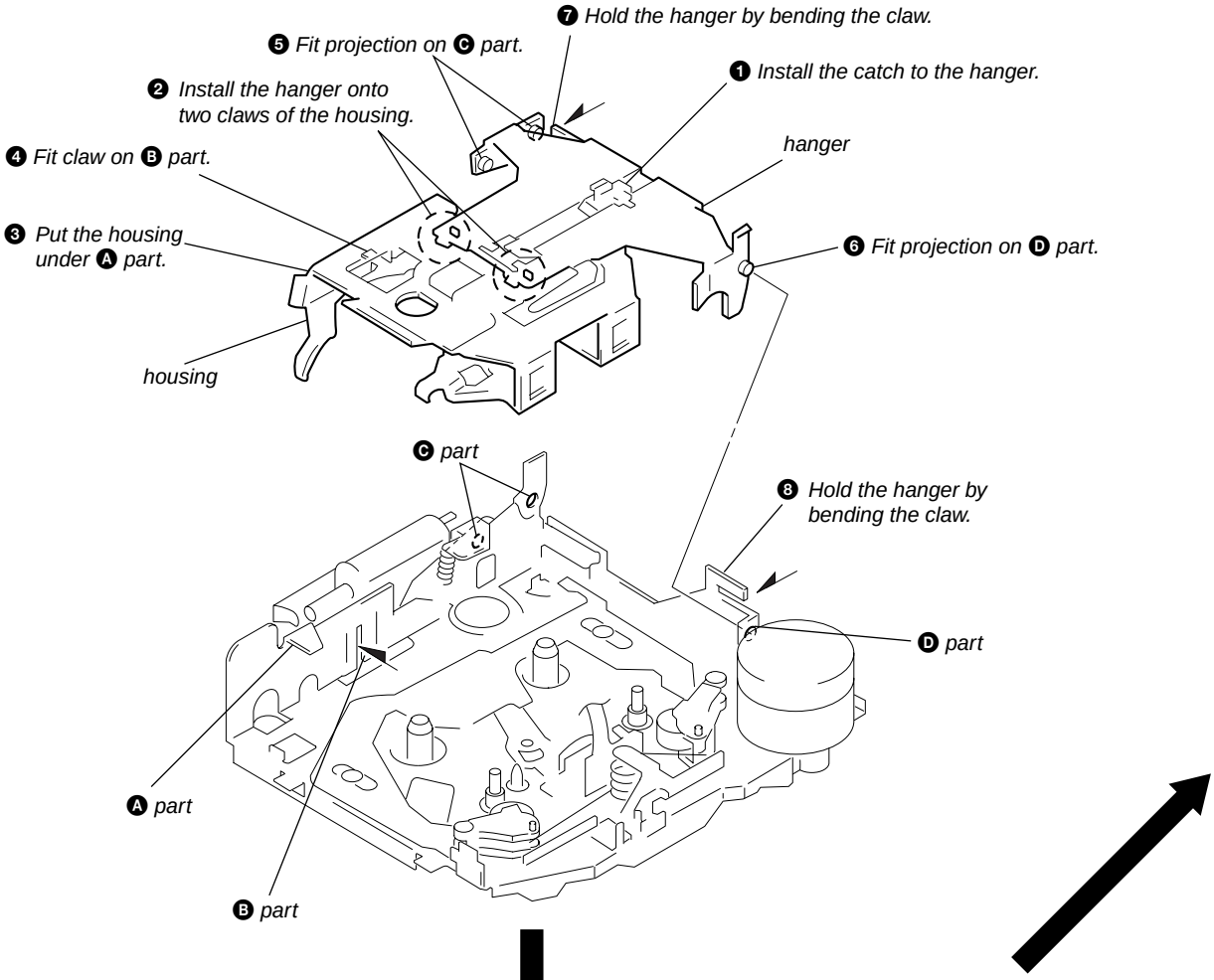
2-4. HEAT SINK (ISO2P)



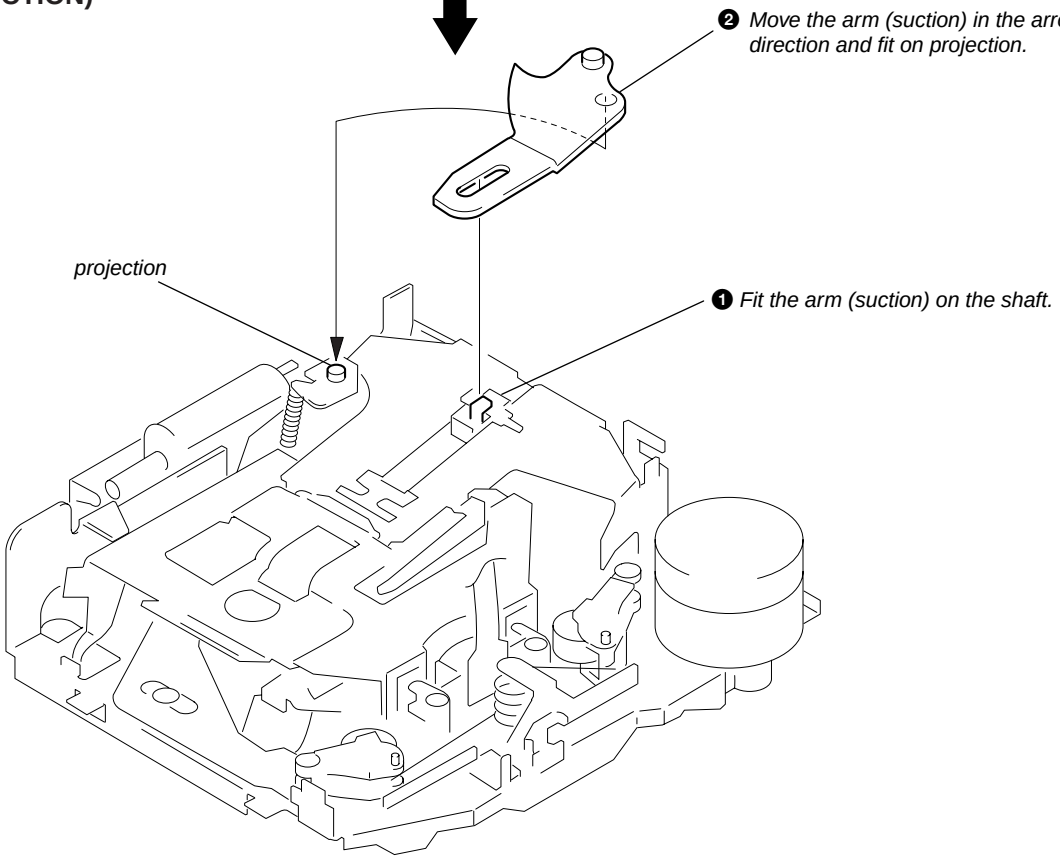
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note: Follow the assembly procedure in the numerical order given.

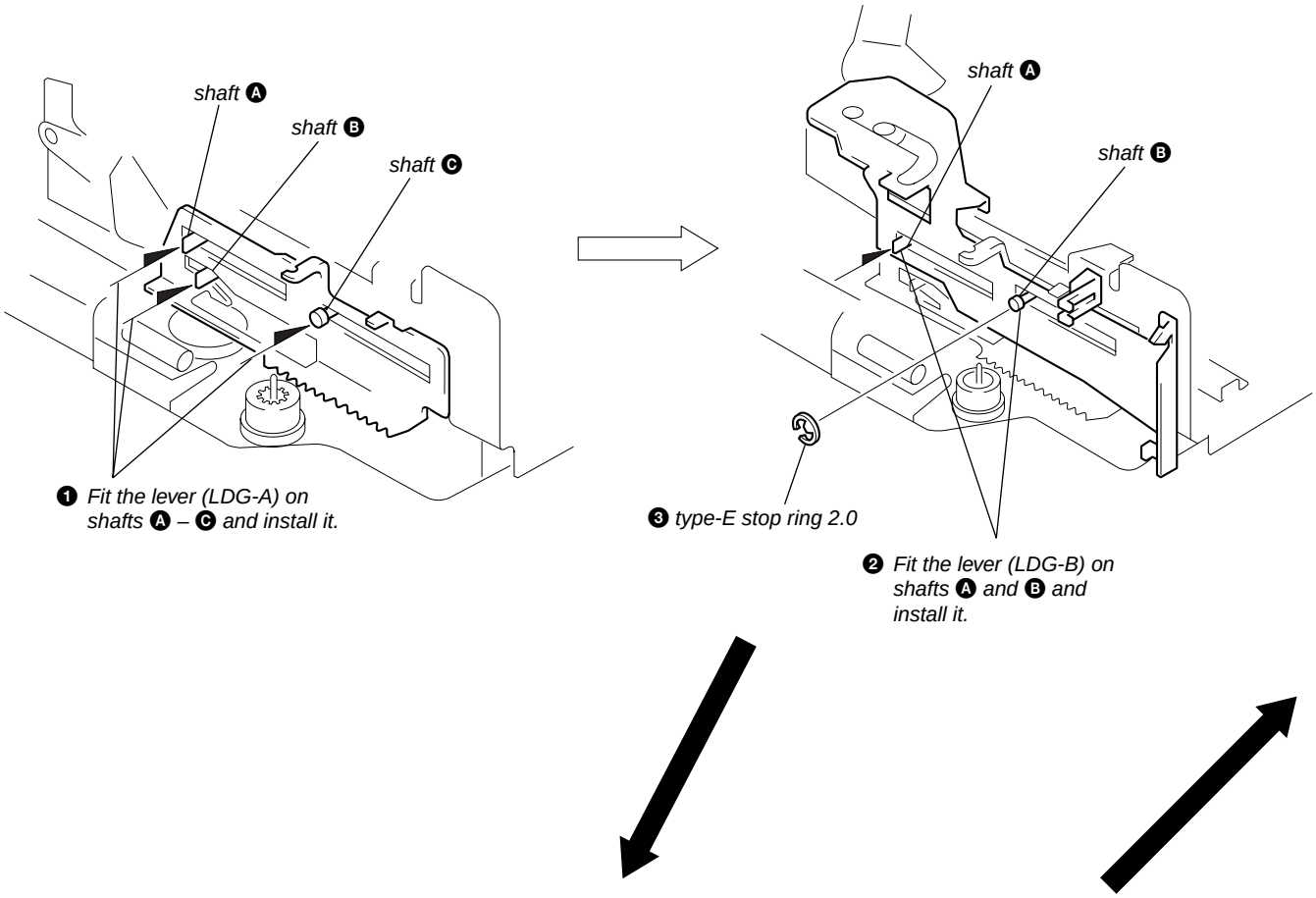
3-1. HOUSING


❼ Hold the hanger by bending the claw.
❺ Fit projection on Ⓒ part.
❶ Install the catch to the hanger.
❷ Install the hanger onto two claws of the housing.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
housing
Ⓒ part
❽ Hold the hanger by bending the claw.
Ⓓ part
Ⓐ part
Ⓑ part

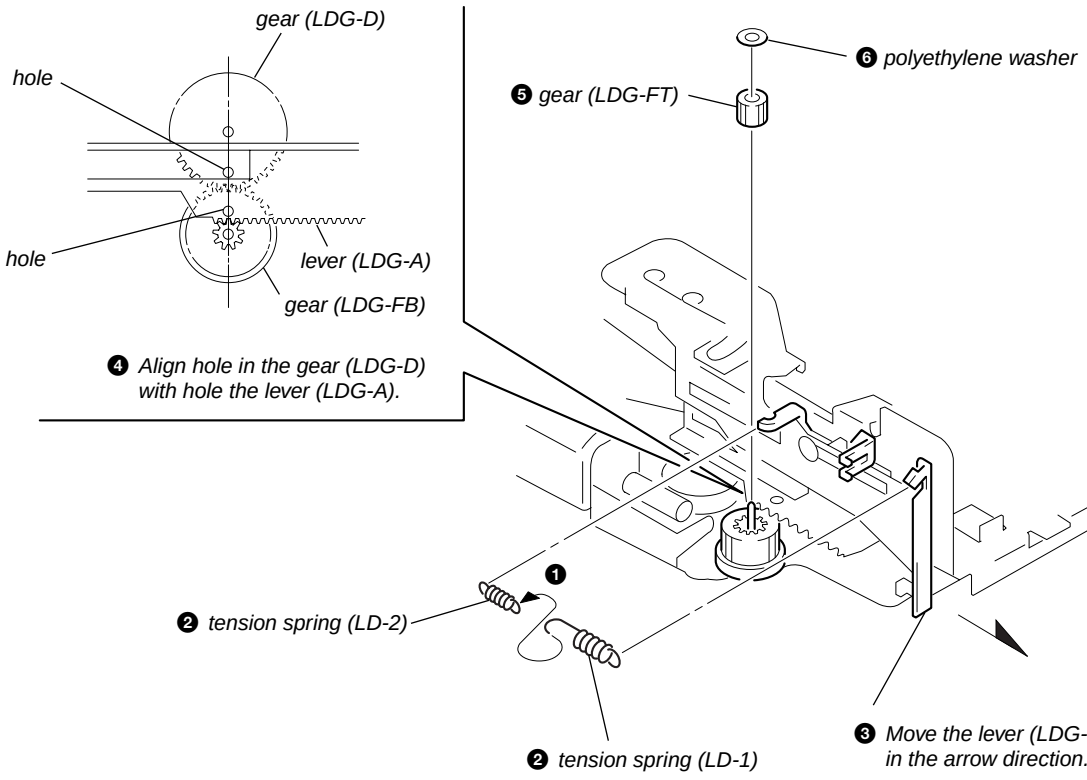
3-2. ARM (SUCTION)



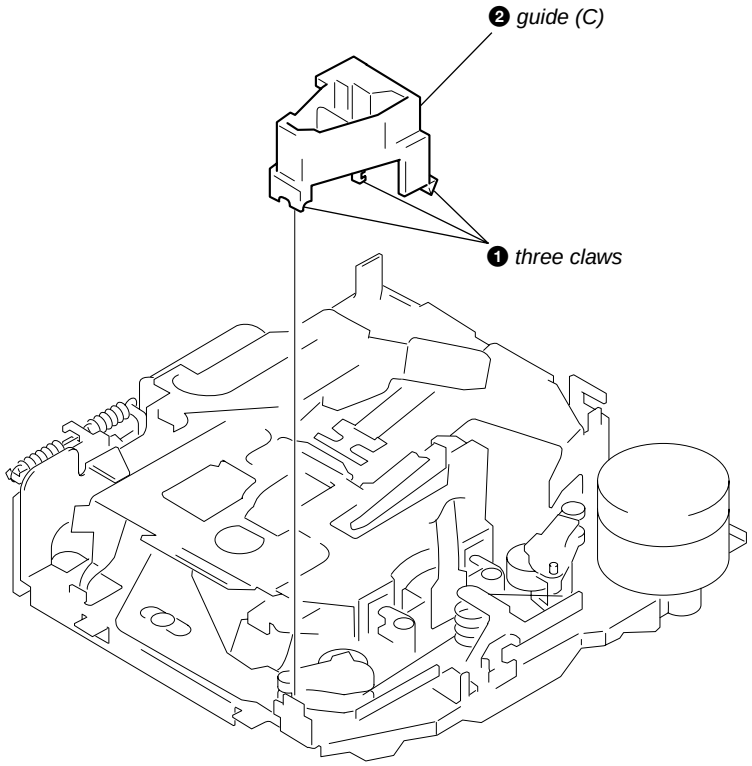
3-3. LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shafts Ⓐ – Ⓒ and install it.
shaft Ⓐ
shaft Ⓑ
❸ type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓑ and install it.

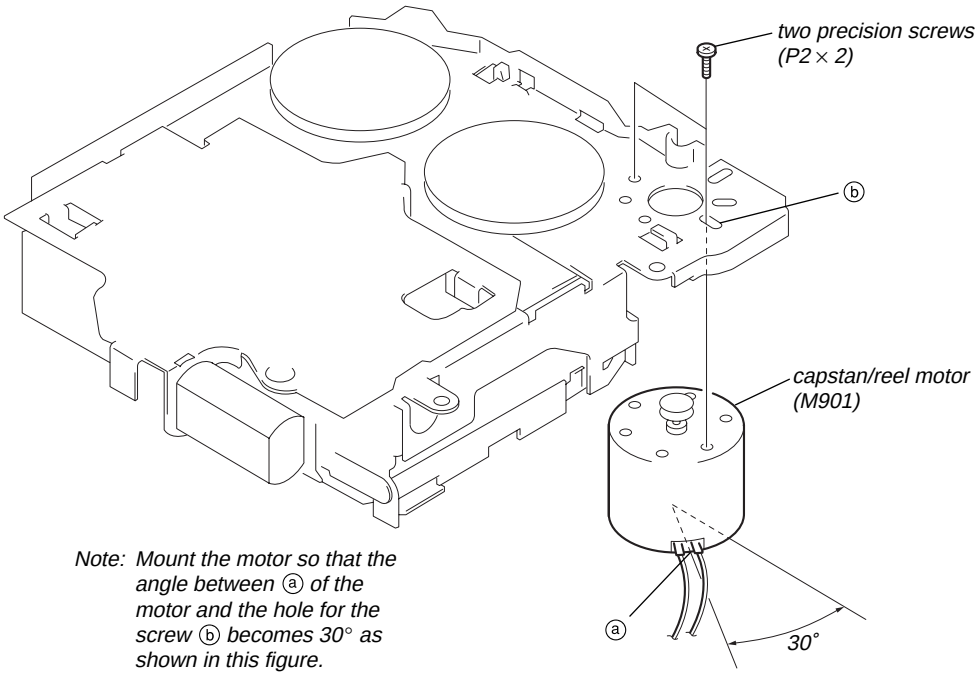
3-4. GEAR (LDG-FT)



3-5. GUIDE (C)



3-6. MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



Note: Mount the motor so that the angle between ⓐ of the motor and the hole for the screw ⓑ becomes 30° as shown in this figure.

SECTION 4
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head pinch roller
   rubber belt capstan
   idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the power supply voltage (14.4 V) unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
Reverse	CQ-102RC	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
FF, REW	CQ-201B	5.89 – 19.61 mN•m (60 – 200 g•cm) (0.83 – 2.78 oz•inch)

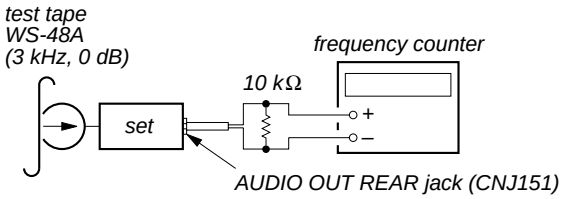
• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 60 g (more than 2.12 oz)
Reverse	CQ-403R	more than 60 g (more than 2.12 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION | 0 dB=0.775 V

Tape Speed Adjustment
Setting:



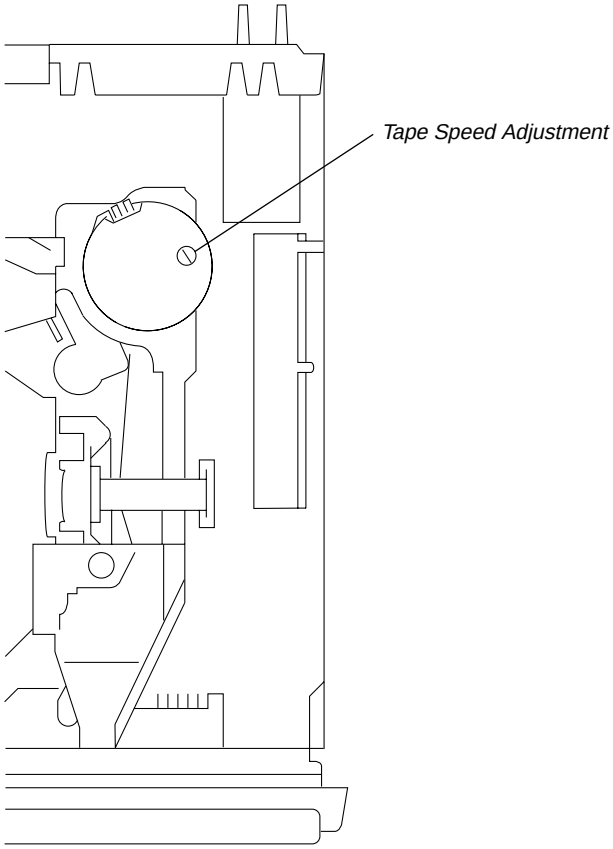
Procedure:
1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the frequency counter becomes 3,000 Hz.

Specification: Constant speed

Frequency counter
2,955 to 3,075 Hz

Adjustment Location:

– SET UPPER VIEW –



TUNER SECTION

Tuner section adjustments are done automatically in this set.

SECTION 6
DIAGRAMS

6-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

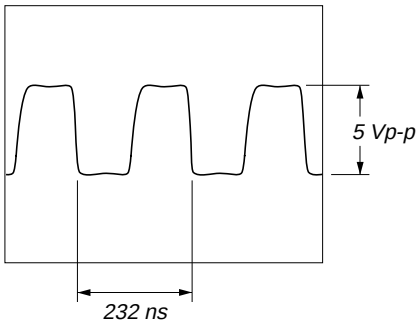
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW/LW
  〈〈 〉〉 : TAPE PLAYBACK
  ∗ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : MW/LW
  ⇨ : TAPE PLAYBACK
  ⇨ : BUS AUDIO IN

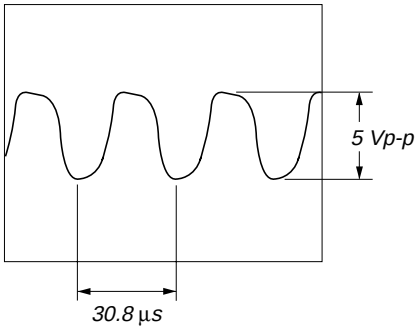
- **Waveforms**

– MAIN Board –

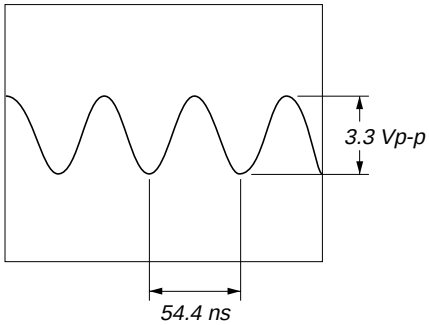
❶ IC51 ④ (OSCO)



❸ IC501 ⑯ (XOUT)

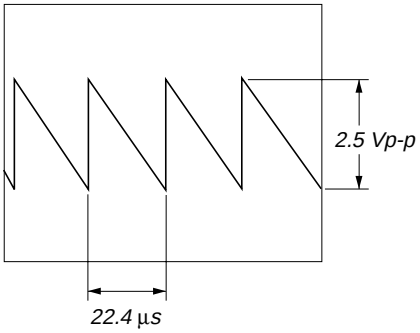


❷ IC501 ⑫ (OSCOUT)

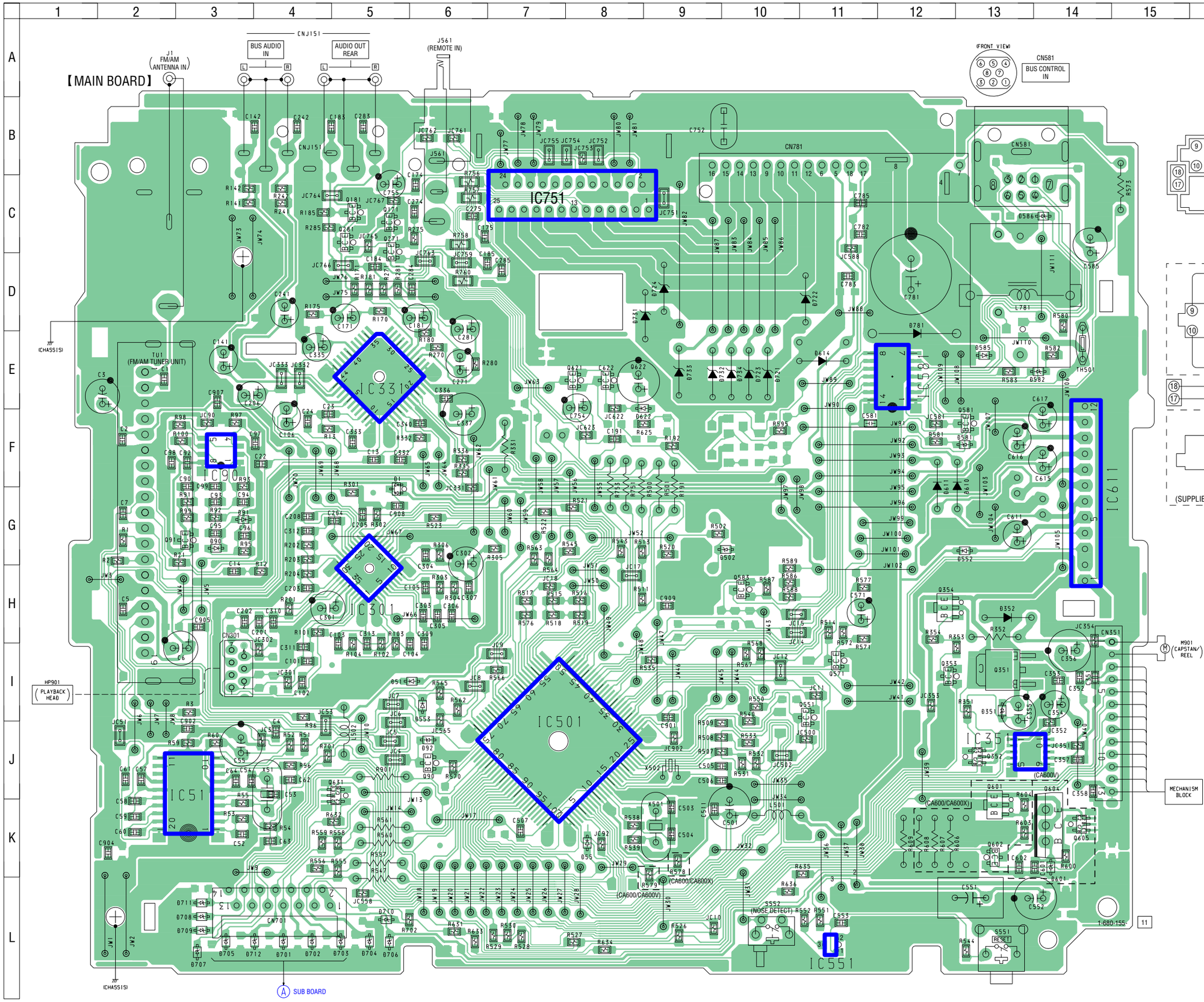


– KEY Board –

❹ IC900 ⑭ (OSC)



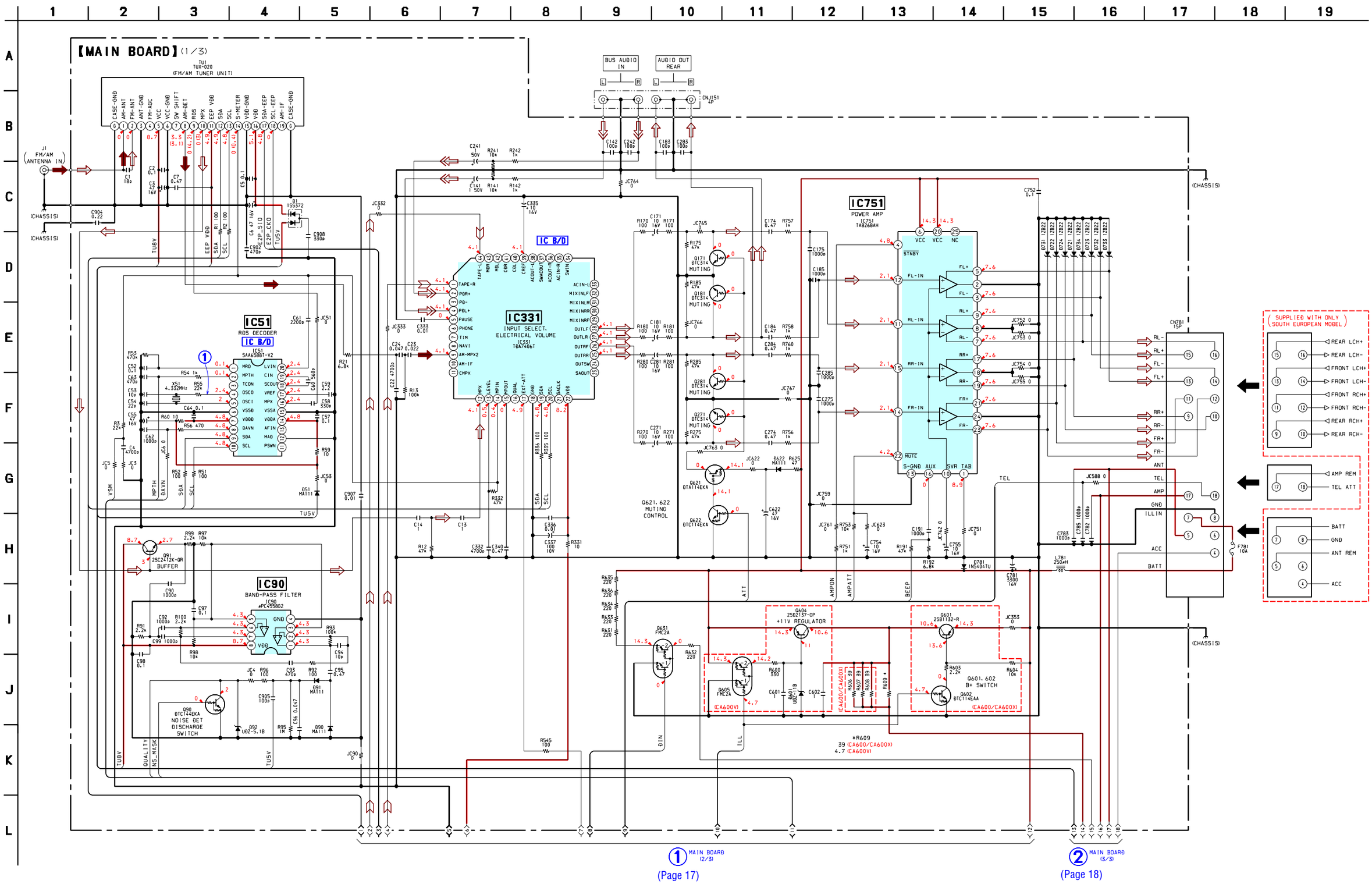
6-2. PRINTED WIRING BOARD – MAIN Board –



- **Semiconductor Location**

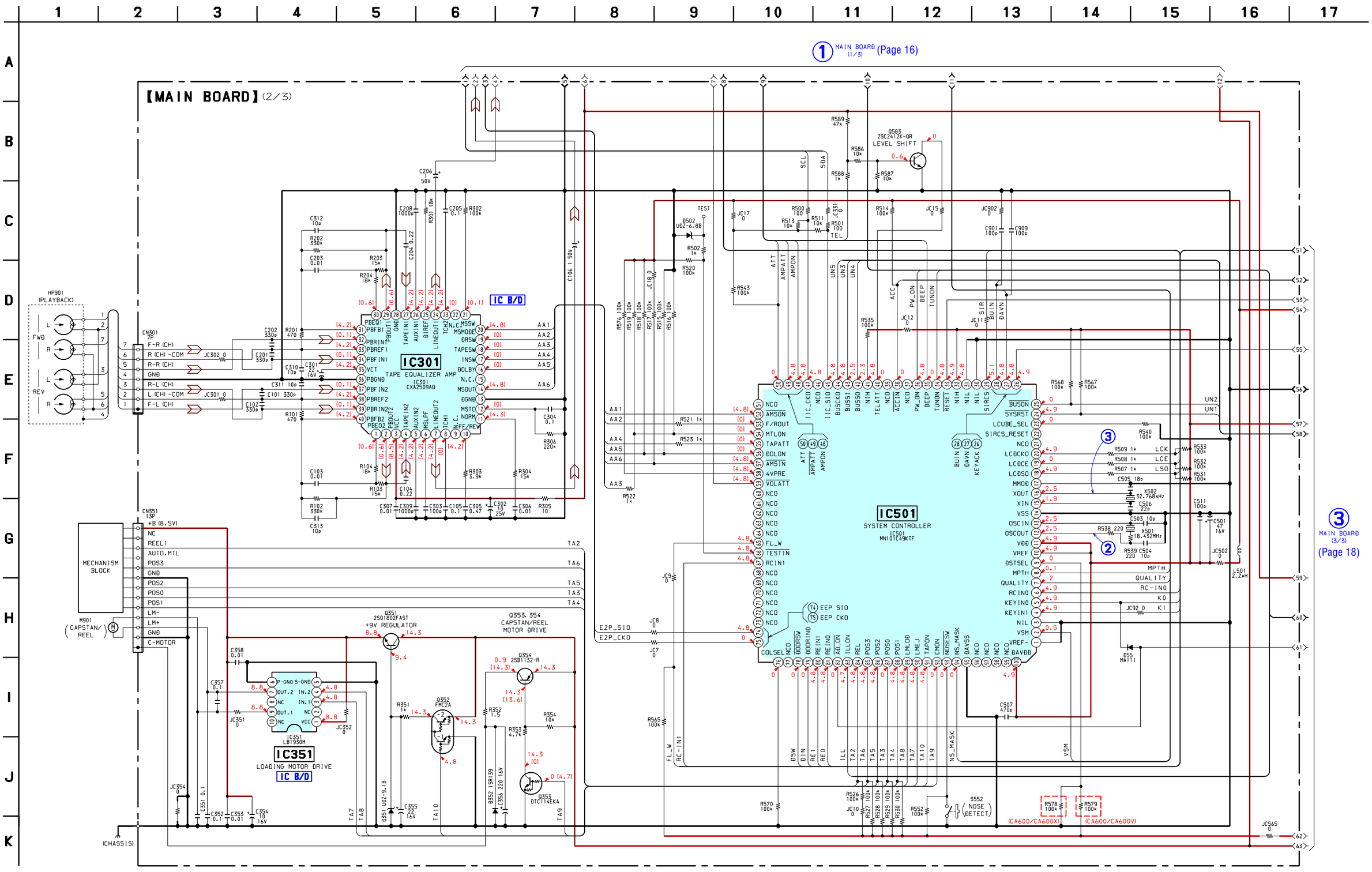
Ref. No.	Location	Ref. No.	Location
D1	G-5	D732	E-9
D51	I-6	D733	E-9
D55	K-8	D734	E-10
D90	G-3	D781	E-12
D91	G-3		
D92	J-6	IC51	J-3
D351	I-13	IC90	F-3
D352	H-13	IC301	H-5
D502	G-10	IC331	E-5
D552	G-13	IC351	J-13
D553	I-6	IC501	J-7
D581	F-13	IC551	L-11
D582	E-14	IC581	E-12
D585	E-13	IC611	G-14
D586	C-14	IC751	C-8
D601	K-14		
D610	F-13	Q90	J-6
D611	F-12	Q91	G-3
D614	E-11	Q171	C-5
D622	E-8	Q181	C-5
D701	L-4	Q271	C-5
D702	L-4	Q281	C-5
D703	L-5	Q351	I-13
D704	L-5	Q352	J-13
D705	L-3	Q353	I-12
D706	L-5	Q354	H-12
D707	L-3	Q551	I-11
D708	L-3	Q571	I-11
D709	L-3	Q581	F-13
D710	L-5	Q583	H-10
D711	L-3	Q601	K-13
D712	L-4	Q602	K-13
D721	E-10	Q604	K-14
D722	D-11	Q605	K-14
D723	E-10	Q621	E-8
D724	D-9	Q622	E-8
D731	D-9	Q631	J-5

6-3. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 14 for Waveform. • See page 23 for IC Block Diagrams.

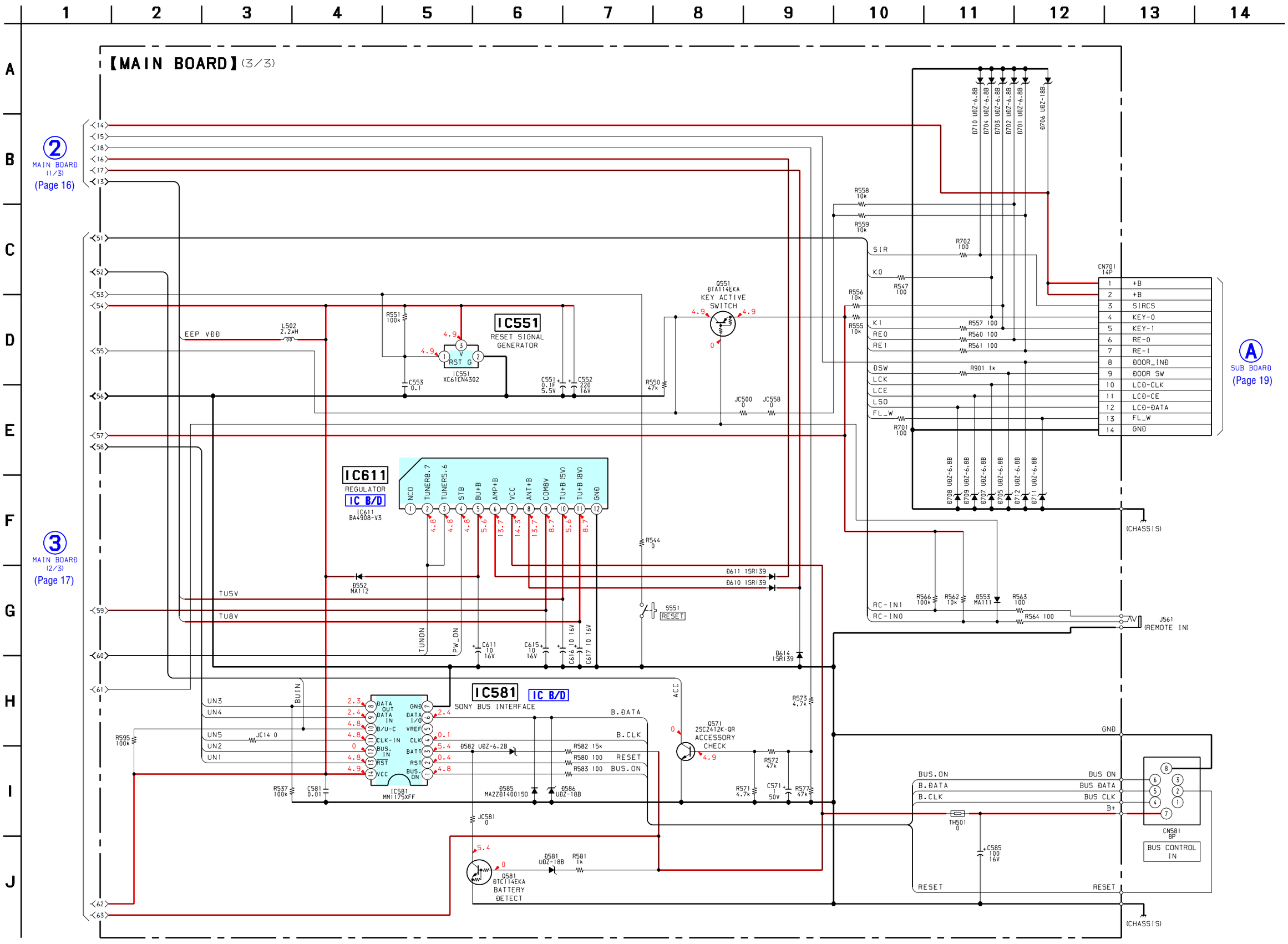


6-4. SCHEMATIC DIAGRAM – MAIN Board (2/3) –

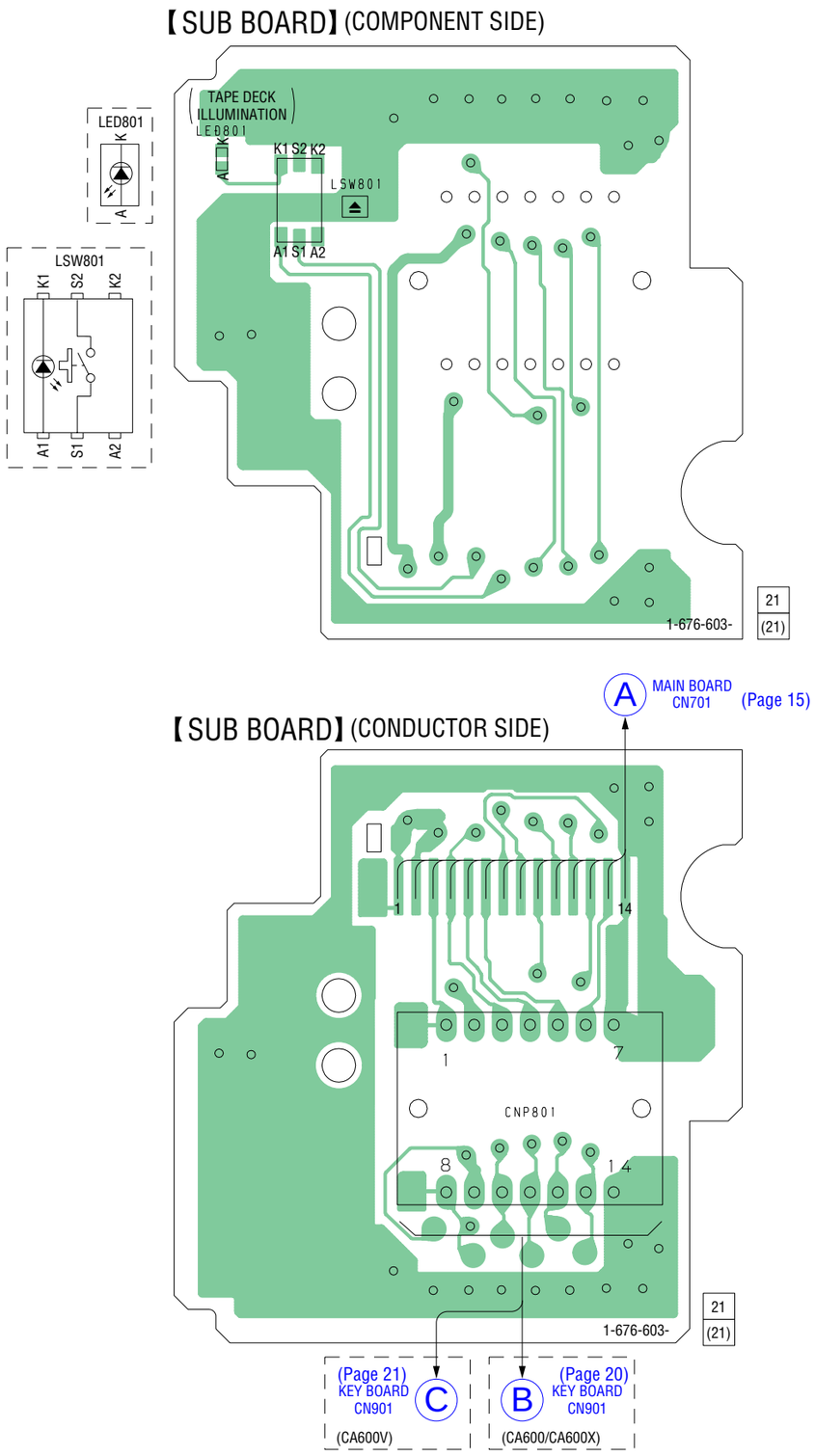
• See page 14 for Waveforms. • See page 23 for IC Block Diagrams.



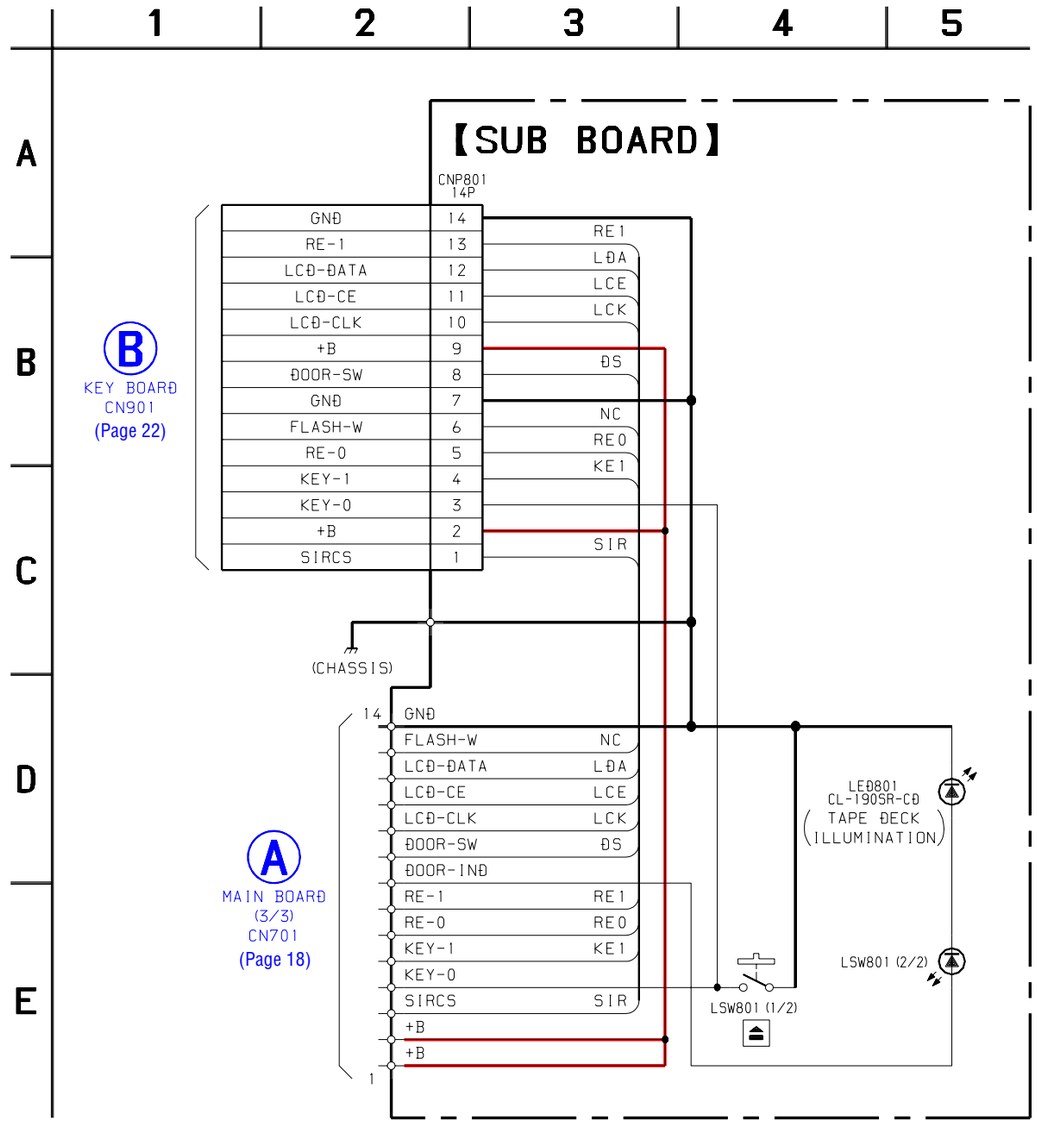
6-5. SCHEMATIC DIAGRAM – MAIN Board (3/3) – • See page 23 for IC Block Diagrams.



6-6. PRINTED WIRING BOARD – SUB Board –

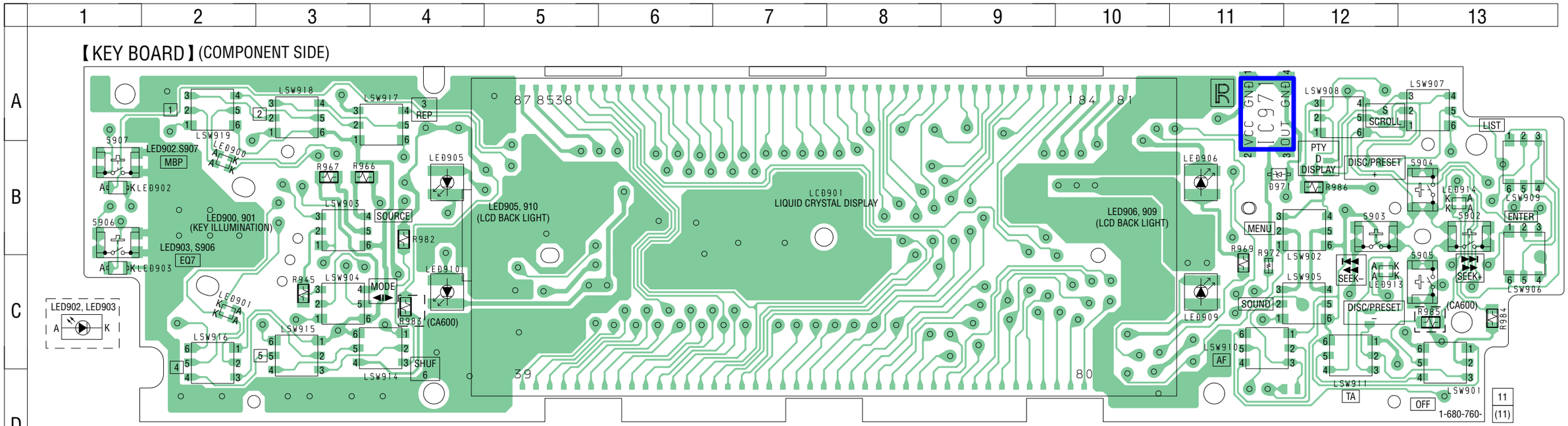


6-7. SCHEMATIC DIAGRAM – SUB Board –

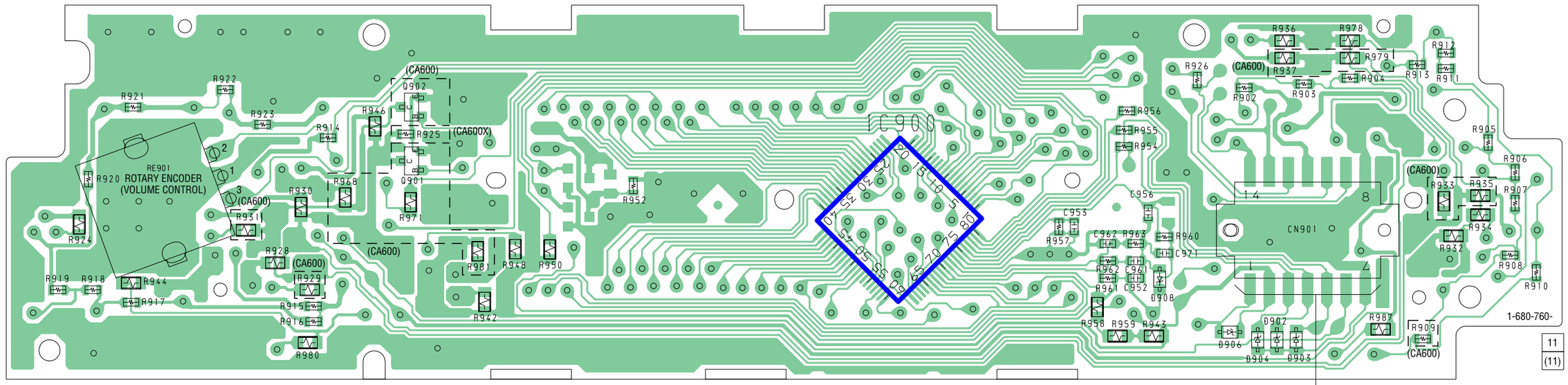


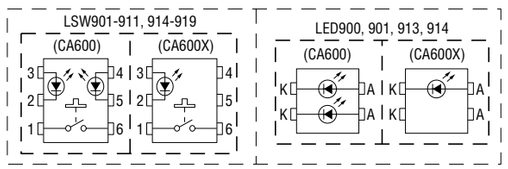
6-8. PRINTED WIRING BOARD – KEY Board (XR-CA600/CA600X) –

【KEY BOARD】(COMPONENT SIDE)



【KEY BOARD】(CONDUCTOR SIDE)





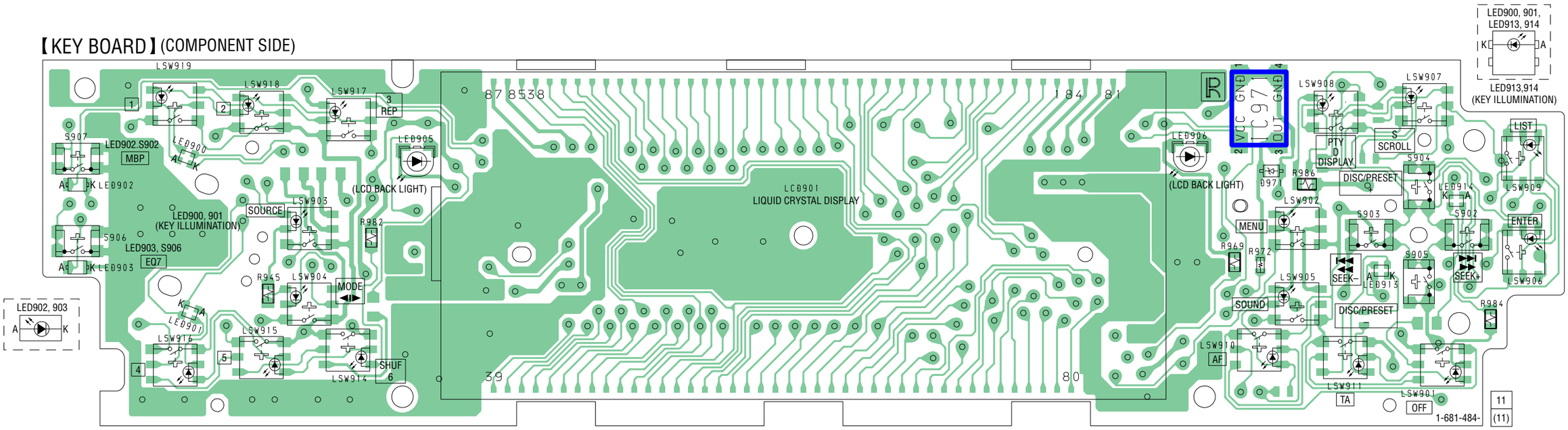
B SUB BOARD CNP801
(Page 19)

- **Semiconductor Location**

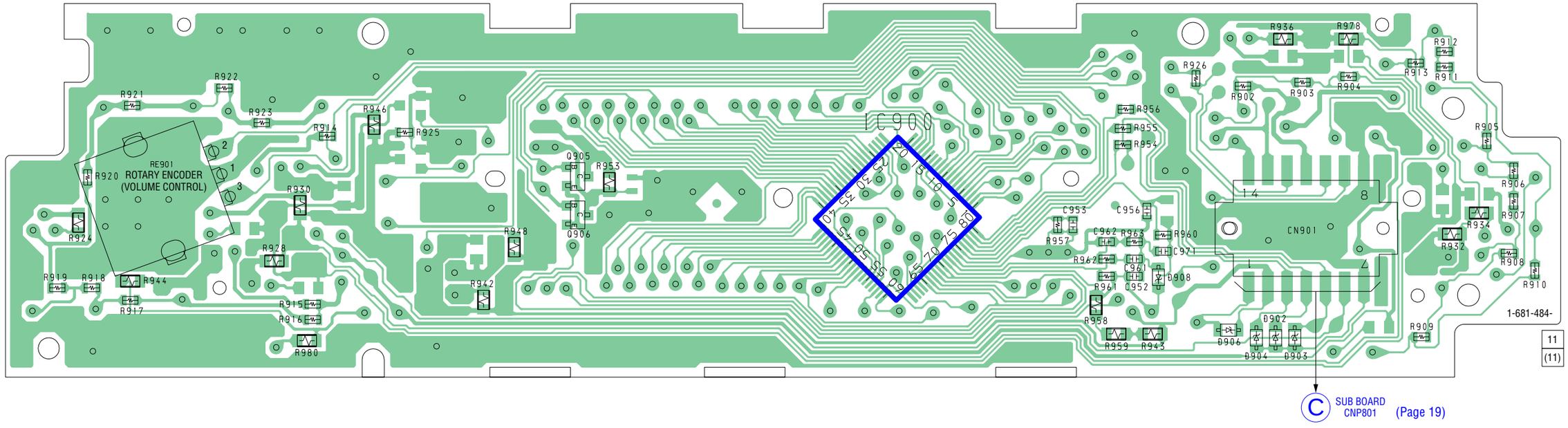
Ref. No.	Location	Ref. No.	Location
D902	G-12	LED902	B-1
D903	G-12	LED903	C-1
D904	G-11	LED905	B-4
D906	G-11	LED906	B-11
D908	G-11	LED909	C-11
D971	B-11	LED910	C-4
		LED913	C-12
IC900	G-8	LED914	B-13
IC971	B-11		
		Q901	F-4
LED900	B-2	Q902	F-4
LED901	C-2		

6-9. PRINTED WIRING BOARD – KEY Board (XR-CA600V) –

【KEY BOARD】(COMPONENT SIDE)



【KEY BOARD】(CONDUCTOR SIDE)

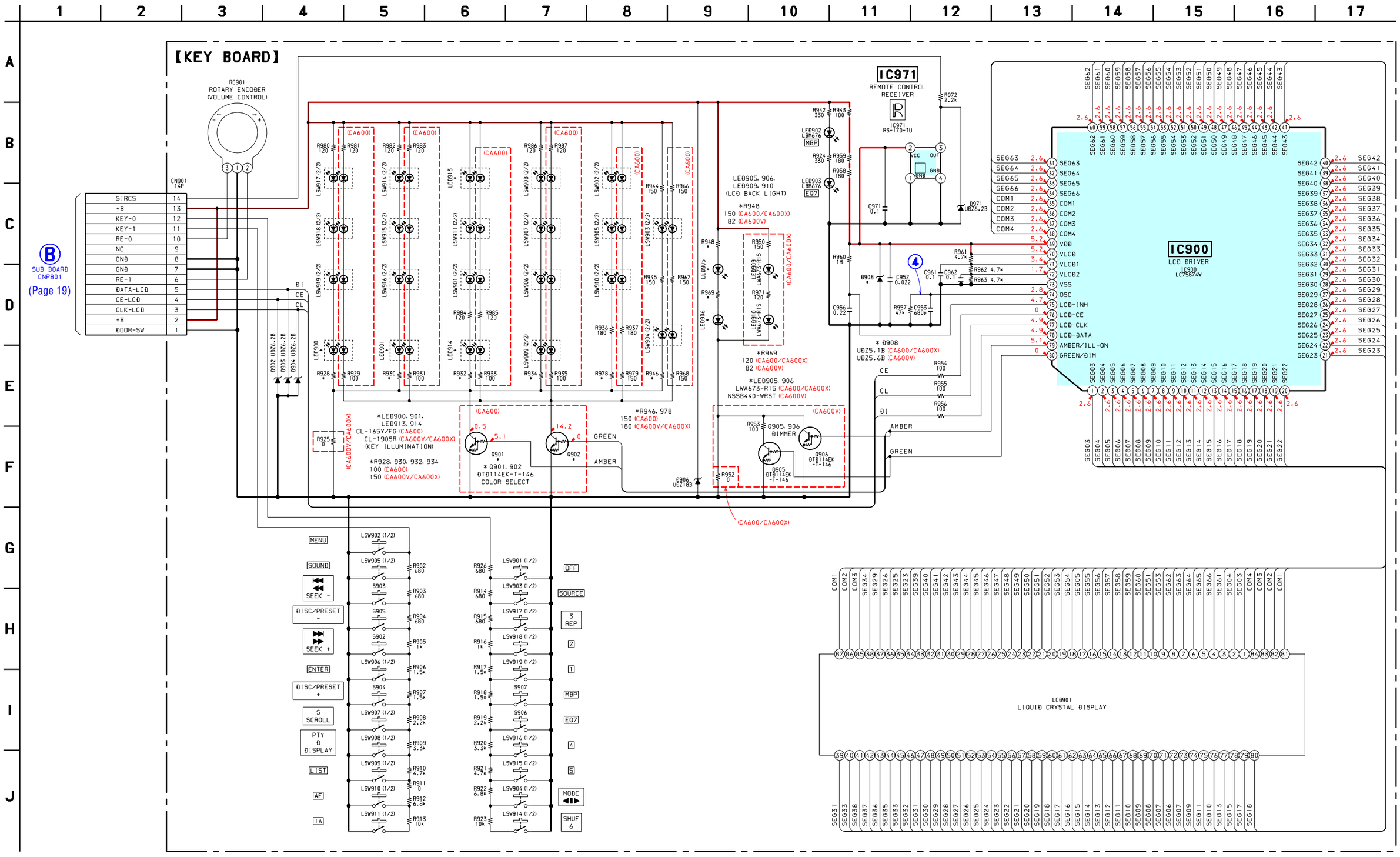


C SUB BOARD CNP801 (Page 19)

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D902	G-12	LED901	C-2
D903	G-12	LED902	B-1
D904	G-11	LED903	C-1
D906	G-11	LED905	B-4
D908	G-11	LED906	B-11
D971	B-11	LED913	C-12
		LED914	B-13
IC900	G-8		
IC971	B-11	Q905	F-6
		Q906	G-6
LED900	B-2		

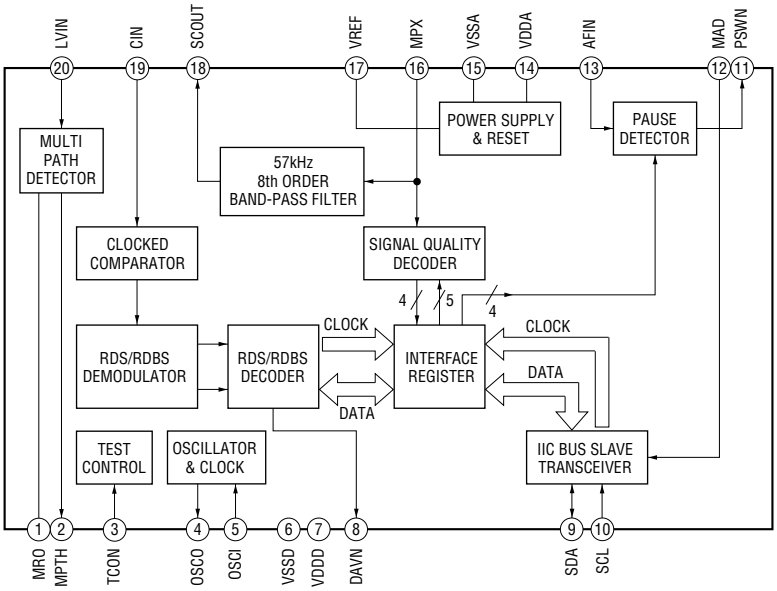
6-10. SCHEMATIC DIAGRAM – KEY Board – • See page 14 for Waveform.



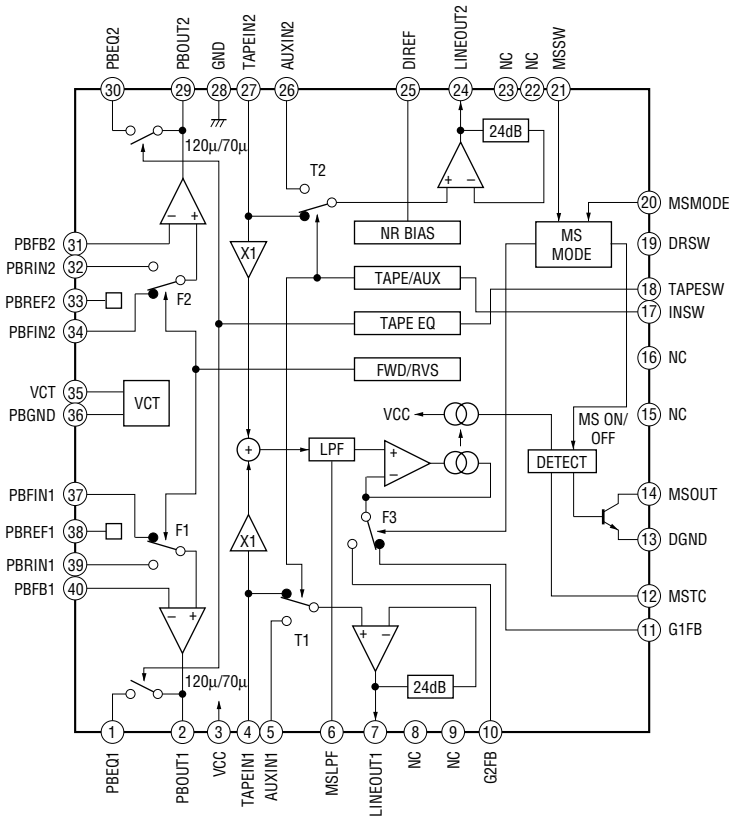
- **IC Block Diagrams**

– MAIN Board –

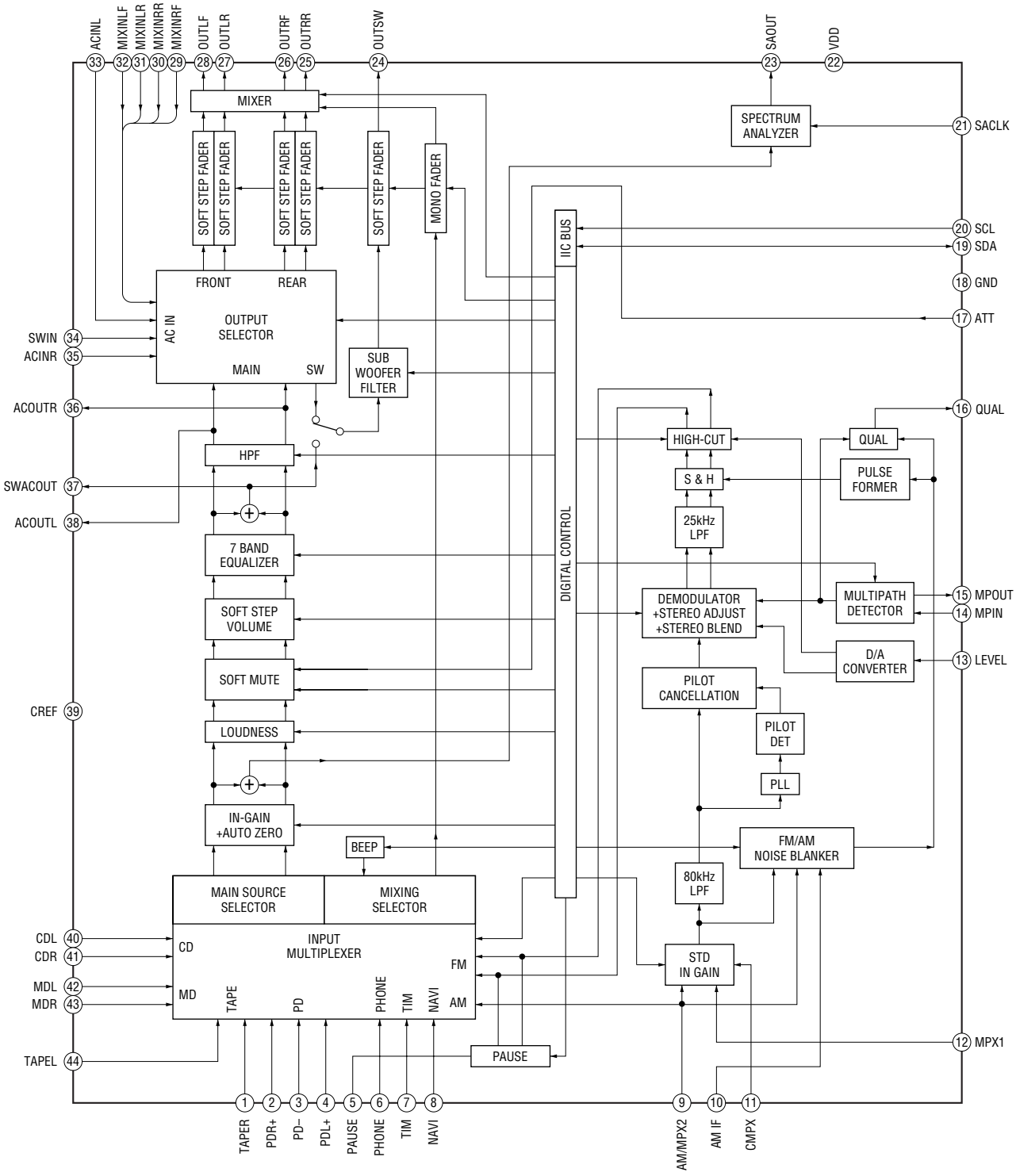
IC51 SAA6588T-118



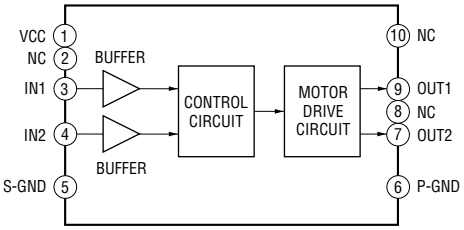
IC301 CXA2509AQ-T4



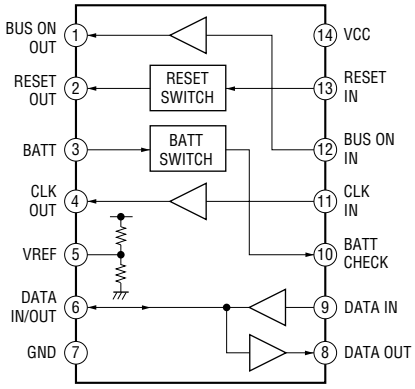
IC331 TDA7406T



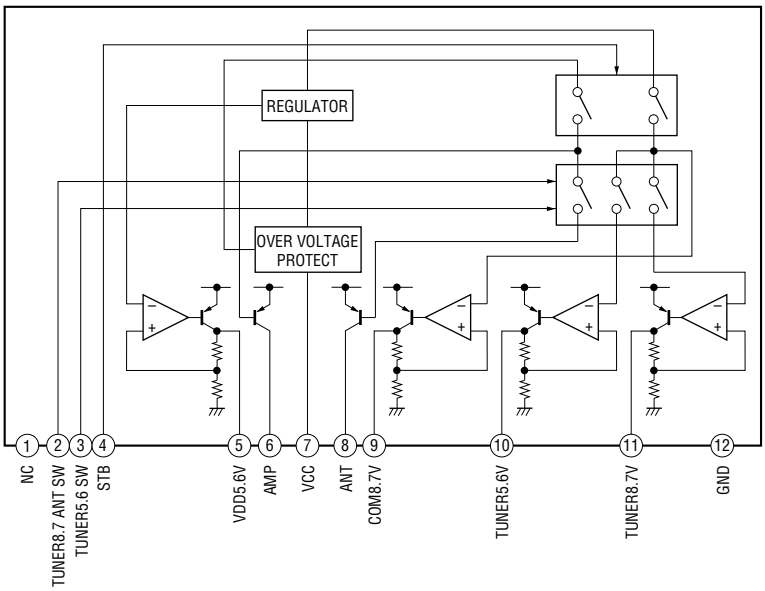
IC351 LB1930M-TLM



IC581 MM1175XFF



IC611 BA4908-V3



6-11. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 MN101C49KTF (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VREF–	I	Reference voltage (0V) input terminal (for A/D converter)
2	VSM	I	FM and AM signal meter voltage detection signal input from the FM/AM tuner unit (TU1) (A/D input)
3	NIL	I	Not used (fixed at "L")
4	KEYIN1	I	Key input terminal (A/D input) LSW902, LSW905 to LSW911, S902 to S905 (MENU, SOUND, ENTER, S SCROLL, PTY D DISPLAY, LIST, AF, TA, ▶▶I ▶▶ SEEK+, I◀◀ ◀◀ SEEK–, DISC/PRESET+, DISC/PRESET– keys input)
5	KEYIN0	I	Key input terminal (A/D input) LSW901, LSW903, LSW904, LSW914 to LSW919, S906, S907 (OFF, SOURCE, MODE ◀II▶, SHUF 6, 5, 4, 3 REP, 2, 1 keys input)
6	RCIN0	I	Rotary remote commander key input terminal (A/D input)
7	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input)
8	MPTH	I	Multi-path detection signal input from the RDS decoder (IC51) (A/D input)
9	DSTSEL	I	Destination setting terminal "L": XR-CA600X, center voltage: XR-CA600, "H": XR-CA600V
10	VREF+	I	Reference voltage (+5V) input terminal (for A/D converter)
11	VDD	—	Power supply terminal (+5V)
12	OSCOUT	O	Main system clock output terminal (18.432 MHz)
13	OSCIN	I	Main system clock input terminal (18.432 MHz)
14	VSS	—	Ground terminal
15	XI	I	Sub system clock input terminal (32.768 kHz)
16	XO	O	Sub system clock output terminal (32.768 kHz)
17	MMOD	I	Selection signal of memory mode input terminal "L": single chip mode (fixed at "L")
18	LCDSO	O	Serial data output to the liquid crystal display driver (IC900)
19	LCDCE	O	Chip enable signal output to the liquid crystal display driver (IC900) "H" active
20	LCDCKO	O	Serial data transfer clock signal output to the liquid crystal display driver (IC900)
21	NCO	O	Not used (open)
22	SIRCS_RESET	O	SIRCS reset signal output terminal Not used (open)
23	LCUBE_SEL	I	Destination setting terminal "H": L-cube model Fixed at "L" in this set
24	$\overline{\text{SYSRST}}$	O	Reset signal output to the SONY bus interface (IC581) "L": reset
25	$\overline{\text{BUSON}}$	O	Bus on/off control signal output to the SONY bus interface (IC581) "L": bus on
26	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of "H"
27	DAVN	I	Synchronized detection signal of RDS data block input from the RDS decoder (IC51) "H" active
28	BUIN	I	Battery detection signal input from the SONY bus interface (IC581) "L" is input at low voltage
29	SIRCS	I	SIRCS remote control signal input from the remote control receiver (IC971)
30, 31	NIL	I	Not used (fixed at "L")
32	NIH	I	Not used (fixed at "H")
33	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC551) and reset switch (S551) "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
34	TUNON	O	Tuner system power supply on/off control signal output "H": tuner power on
35	BEEP	O	Beep sound drive signal output to the power amplifier (IC751)
36	PW_ON	O	Main system power supply on/off control signal output "H": power on
37	NCO	I	Not used (open)
38	$\overline{\text{ACCIN}}$	I	Accessory detection signal input "L": accessory on
39	NCO	O	Not used (open)

Pin No.	Pin Name	I/O	Description
40	TELATT	I	Telephone attenuate signal input At input of "H", the signal is attenuated by –20 dB
41	NIH	I	Not used (fixed at "H")
42	BUSSO	O	Serial data output to the SONY bus interface (IC581)
43	BUSSI	I	Serial data input from the SONY bus interface (IC581)
44	BUSCKO	O	Serial data transfer clock signal output to the SONY bus interface (IC581)
45	IIC SIO	I/O	Two-way data IIC bus with the FM/AM tuner unit (TU1), RDS decoder (IC51) and electrical volume (IC331)
46	NCO	O	Not used (open)
47	IIC CKO	O	IIC bus clock signal output to the FM/AM tuner unit (TU1), RDS decoder (IC51) and electrical volume (IC331)
48	AMPON	O	Standby on/off control signal output to the power amplifier (IC751) "L": standby mode, "H": amplifier on
49	$\overline{\text{AMPATT}}$	O	Muting on/off control signal output to the power amplifier (IC751) "L": muting on
50	ATT	O	Audio line muting on/off control signal output "H": muting on
51	NCO	O	Not used (open)
52	$\overline{\text{AMSON}}$	O	Tape auto music sensor control signal output to the CXA2509AQ (IC301) "L": auto music sensor on
53	F/ROUT	O	Forward/reverse control signal output to the CXA2509AQ (IC301) "L": reverse direction, "H": forward direction
54	MTLON	O	METAL control in/out terminal At initial mode: valid/invalid selection input of METAL function (valid at "L" input) At normal mode: METAL on/off control signal output to the CXA2509AQ (IC301) (METAL on at "H" output)
55	TAPATT	O	Tape muting on/off control signal output to the CXA2509AQ (IC301) "H": muting on Active at ATA, FF/REW mode
56	NCO	I/O	Dolby control in/out terminal Not used (pull down)
57	AMSIN	I	Whether a music is present or not from CXA2509AQ (IC301) is detected at auto music sensor "L": music is present, "H": music is not present
58	4VPRE	I	4V PREOUT setting terminal "L": 4V PREOUT on Fixed at "H" in this set
59	$\overline{\text{VOLATT}}$	O	Pre amplifier muting on/off control signal output to the electrical volume (IC331) "L": muting on
60 to 64	NCO	O	Not used (open)
65	FL_W	I	Internal flash memory data write mode detection signal input terminal "L": data write mode Not used (open)
66	$\overline{\text{TESTIN}}$	I	Setting terminal for the test mode "L": test mode, normally fixed at "H"
67	RCIN1	I	Rotary remote commander shift key input terminal "L": shift key on
68 to 73	NCO	O	Not used (open)
74	EEP SIO	I/O	Two-way data bus for tuner EEPROM with the FM/AM tuner unit (TU1)
75	EEP CKO	I/O	Two-way bus clock signal for tuner EEPROM with the FM/AM tuner unit (TU1)
76	COLSEL	I	Setting terminal for the illumination color "L": amber, "H": green Fixed at "L" in this set
77	NCO	O	Not used (open)
78	$\overline{\text{DOORSW}}$	I	Front panel open/close detection signal input "L" is input when the front panel is closed
79	DOORIND	O	LED drive signal output of the MD disc slot illumination and ⏏ indicator (LED810, LSW810) "H": LED on "H" is output to turn on the LED when front panel is opened
80, 81	RE IN1, RE IN0	I	Dial pulse input of the rotary encoder (RE901) (for VOLUME control)
82	$\overline{\text{AD ON}}$	O	A/D converter power control signal output terminal When the KEYACK (pin ㉖) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input

Pin No.	Pin Name	I/O	Description
83	ILLON	O	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC900) "H": power on
84	REL	I	Rotation detection signal input from supply reel sensor and take-up reel sensor on the mechanism deck
85	POS3	I	Tape position (EJECT/FF/REW/REV/ FWD mode) detect input from the tape operation switch on the deck mechanism POS3: "L": REV and EJECT mode, "H": others mode POS2: "L": REW mode, "H": others mode POS0: "L": EJECT mode, "H": others mode POS1: "L": PLAY and FF in FWD mode, and REW in REV mode, "H": others mode
86	POS2	I	
87	POS0	I	
88	POS1	I	
89	LMLOD	O	Motor drive signal output to the loading motor drive (IC351) "H" active (For the loading direction and forward side operation) *1
90	LMEJ	O	Motor drive signal output to the loading motor drive (IC351) "H" active (For the eject direction and reverse side operation) *1
91	TAPEON	O	Power on/off control signal output of the loading motor drive (IC351) and capstan/reel motor (M901) "H": motor on
92	CMON	O	Capstan/reel motor (M901) drive signal output terminal "H": motor on
93	$\overline{\text{NOSESW}}$	I	Front panel block remove/attach detection signal input from the nose detection switch (S552) "L": front panel is attached, "H": front panel is removed
94	NS_MASK	O	Discharge control signal output for the noise detection circuit "H": discharge
95	DAVSS	—	Ground terminal (for D/A converter)
96 to 99	NCO	O	Not used (open)
100	DAVCC	—	Power supply terminal (+5V) (for D/A converter)

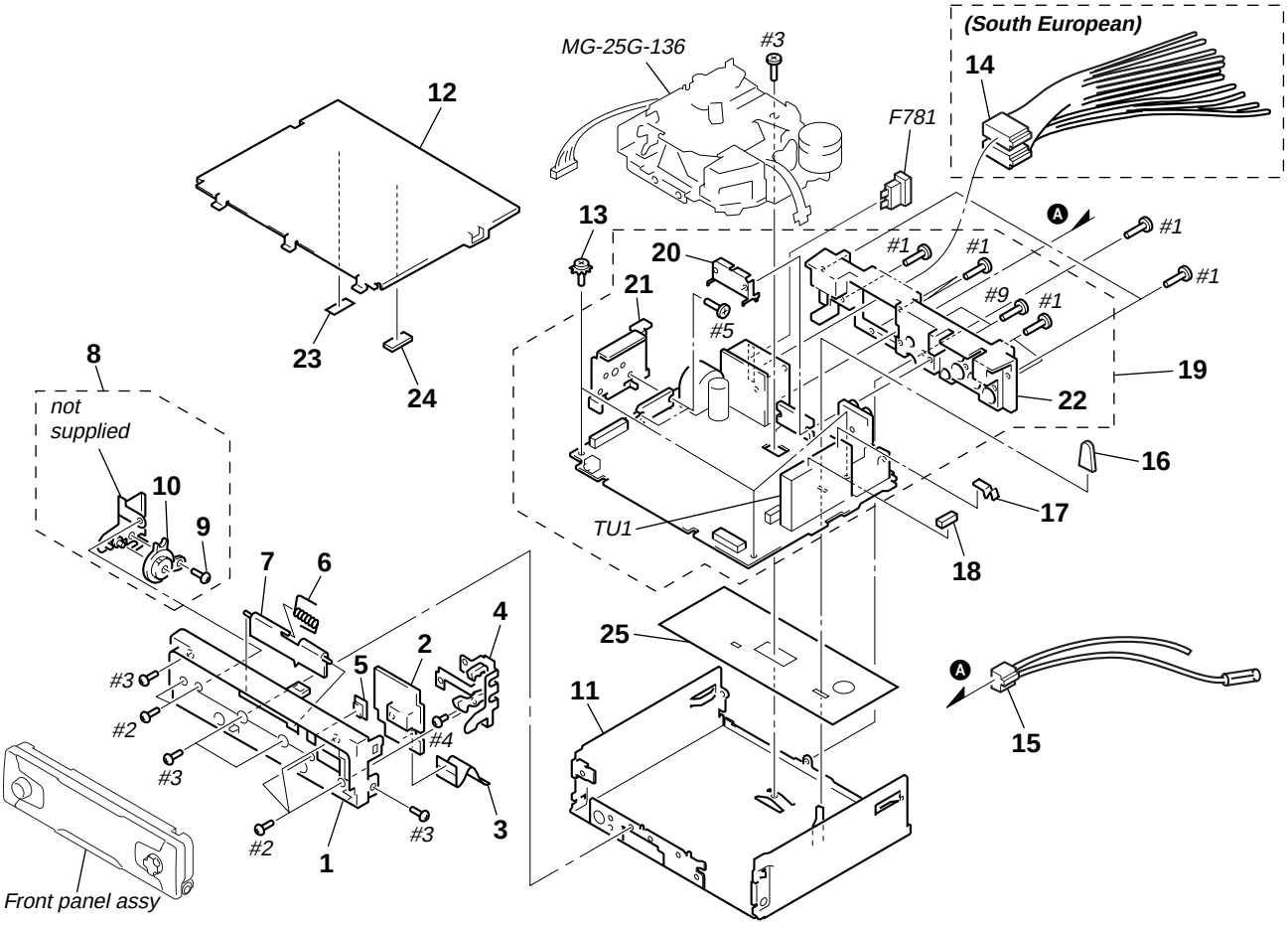
*1 Loading motor control

Terminal \ Mode	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LMLOD (pin ⑧⑨)	"L"	"H"	"L"	"H"
LMEJ (pin ⑨⓪)	"L"	"L"	"H"	"H"

SECTION 7
EXPLODED VIEWS

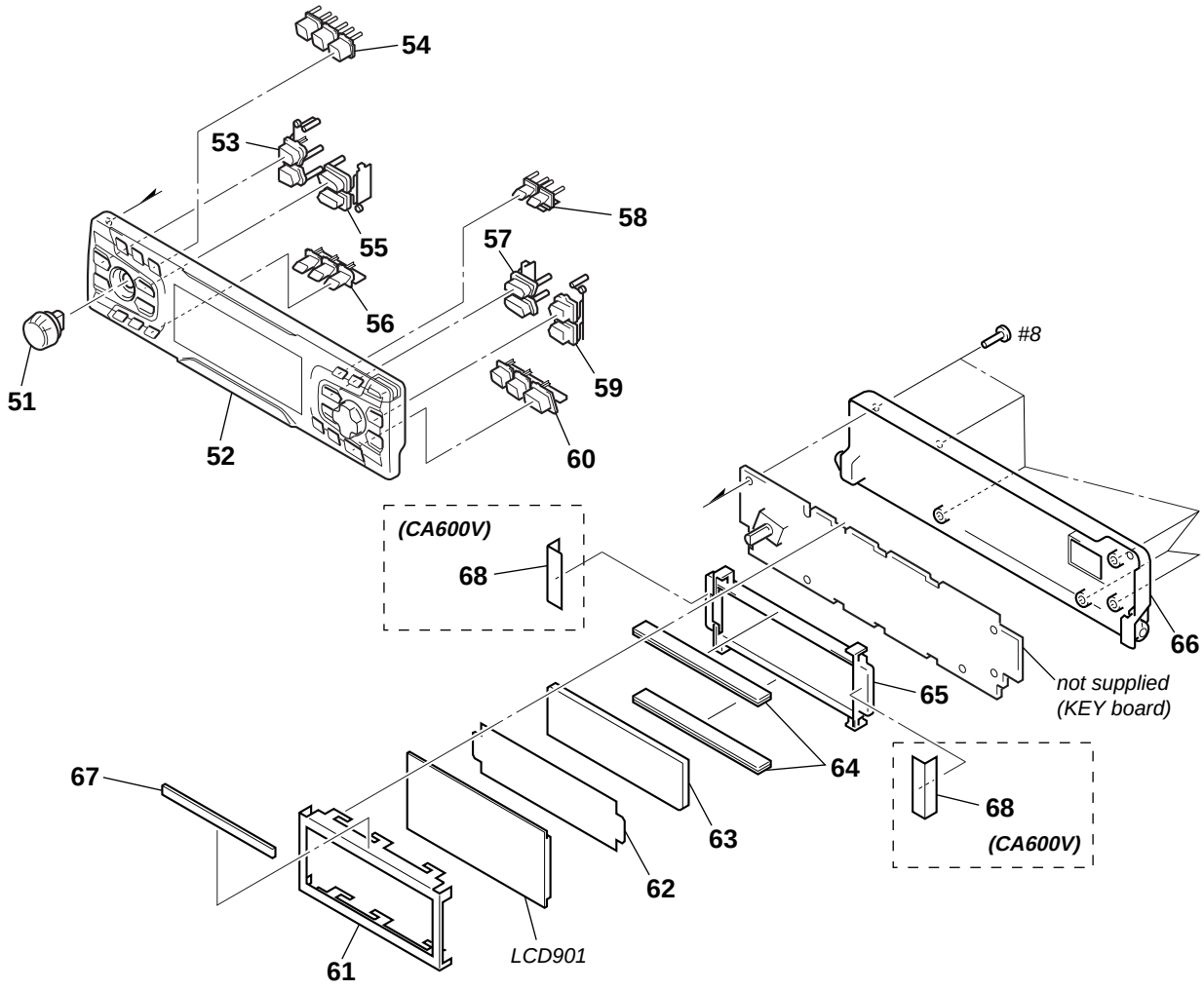
NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

7-1. GENERAL SECTION



Ref. No.	Part No.	Description	Remark
1	X-3378-397-1	PANEL ASSY, SUB	
* 2	1-676-603-21	SUB BOARD	
3	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE)	
4	X-3377-621-1	LOCK ASSY	
5	3-040-990-01	BUTTON (EJECT) (⏏)	
6	3-935-003-01	SPRING, TORSION	
7	3-027-437-11	DOOR, CASSETTE	
8	X-3376-699-1	GEAR ASSY	
9	3-713-786-51	SCREW +P 2X3	
10	3-030-909-01	DAMPER, OIL	
* 11	3-040-994-01	CHASSIS	
* 12	3-040-995-01	COVER	
13	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S) (POWER) (South European)	
15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)	
16	3-012-859-01	CAP (25), RUBBER	
* 17	3-045-878-01	PLATE (TU), GROUND	
* 18	3-045-877-01	CUSHION (TU)	
* 19	A-3326-818-A	MAIN BOARD, COMPLETE (CA600)	
* 19	A-3326-823-A	MAIN BOARD, COMPLETE (CA600X)	
* 19	A-3326-829-A	MAIN BOARD, COMPLETE (CA600V)	
* 20	3-040-998-01	BRACKET (IC)	
* 21	3-041-262-01	HEAT SINK (REG/XR)	
* 22	3-041-014-11	HEAT SINK (ISO2P)	
* 23	3-046-990-01	SPACER (COVER L)	
* 24	3-046-991-01	SPACER (COVER R)	
* 25	3-045-828-01	INSULATED PLATE	
F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	
TU1	A-3282-061-A	FM/AM TUNER UNIT (TUX-020)	

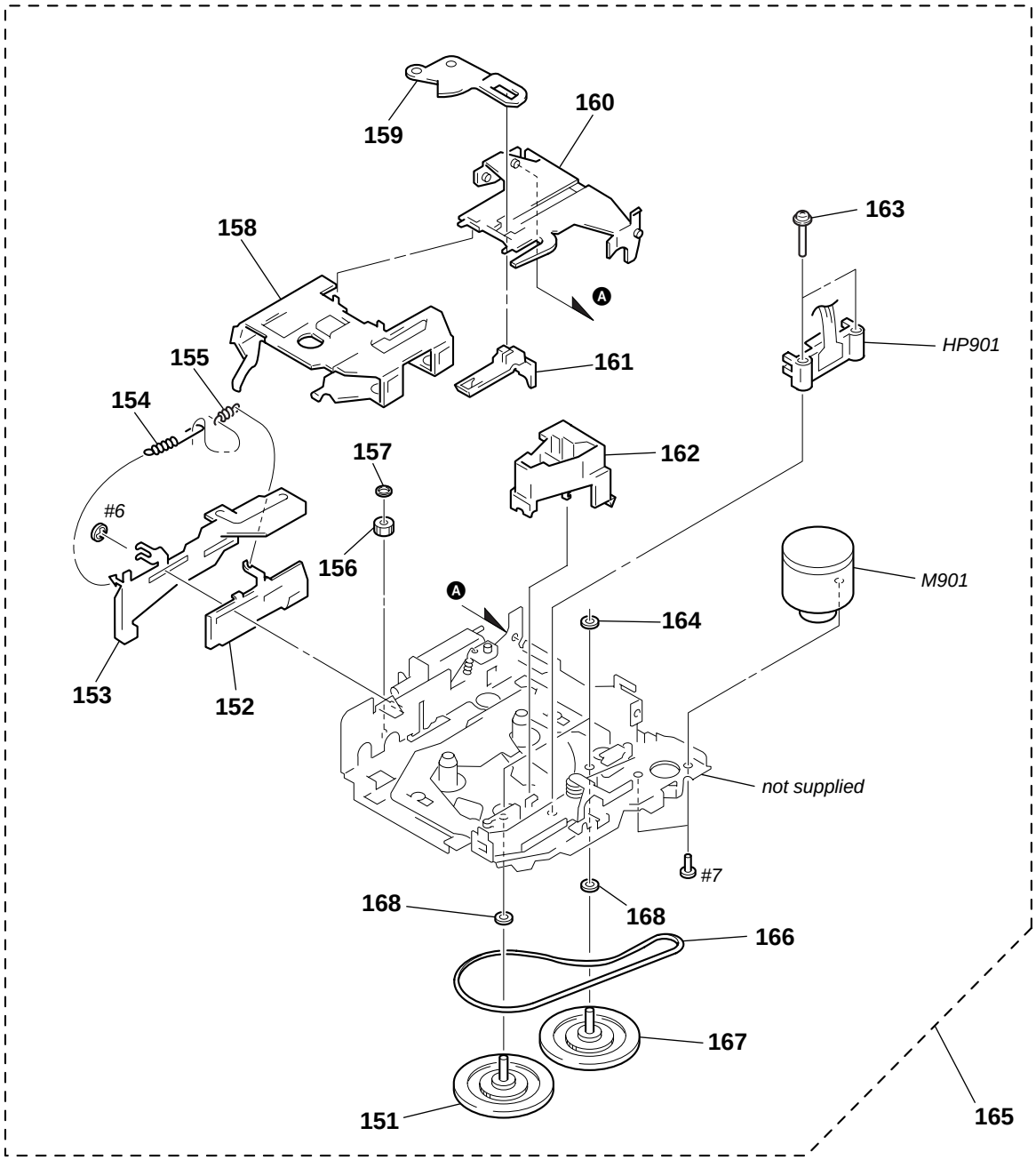
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-3380-080-1	KNOB (VOL) ASSY (CA600V/CA600X)	
51	X-3380-081-1	KNOB (VOL) ASSY (CA600)	
52	X-3380-133-1	PANEL (SV) ASSY, FRONT (CA600X)	
52	X-3380-135-1	PANEL (SV) ASSY, FRONT (CA600)	
52	X-3380-137-1	PANEL (SV) ASSY, FRONT (CA600V)	
53	3-223-752-11	BUTTON (DSO/EQ7) (MBP. EQ7)	
54	3-223-750-01	BUTTON (1-3) (1. 2. 3)	
55	3-223-753-01	BUTTON (SOURCE/MODE)	
56	3-223-751-01	BUTTON (4-6) (4. 5. 6)	
57	3-223-791-01	BUTTON (MENU/SOUND)	
58	3-223-789-01	BUTTON (DSPL/SCRL) (D. S)	
59	3-223-790-01	BUTTON (LIST/ENTER)	
60	3-223-792-01	BUTTON (AF/TA/OFF)	

Ref. No.	Part No.	Description	Remark
* 61	3-223-799-01	PLATE (LCD), GROUND	
* 62	3-223-800-01	REFLECTOR SHEET (LCD) (CA600/CA600X)	
62	3-231-293-01	REFLECTOR SHEET (LCD/V) (CA600V)	
* 63	3-223-797-01	PLATE (LCD), LIGHT GUIDE	
64	1-694-780-11	CONDUCTIVE BOARD, CONNECTION	
* 65	3-223-798-01	HOLDER (LCD)	
66	X-3380-079-1	PANEL ASSY, FRONT BACK	
67	3-231-770-01	SPACER (WINDOW)	
68	3-231-648-01	SHEET (SHIELD) (CA600V)	
LCD901	1-804-292-21	DISPLAY PANEL, LIQUID CRYSTAL (CA600)	
LCD901	1-804-292-41	DISPLAY PANEL, LIQUID CRYSTAL (CA600X)	
LCD901	1-804-293-11	DISPLAY PANEL, LIQUID CRYSTAL (CA600V)	

7-3. MECHANISM DECK SECTION (MG-25G-136)



Ref. No.	Part No.	Description	Remark
151	A-3291-667-A	CLUTCH (FR) ASSY	
* 152	3-019-130-01	LEVER (LDG-A)	
* 153	3-019-131-01	LEVER (LDG-B)	
154	3-020-539-01	SPRING (LD-1), TENSION	
155	3-020-540-01	SPRING (LD-2), TENSION	
156	3-020-542-01	GEAR (LOADING FT)	
157	3-341-753-11	WASHER, POLYETHYLENE	
158	3-020-533-01	HOUSING	
* 159	3-020-532-01	ARM (SUCTION)	
160	3-020-534-01	HANGER	

Ref. No.	Part No.	Description	Remark
161	3-933-346-01	CATCHER	
162	3-933-344-01	GUIDE (C)	
163	3-014-798-01	SCREW (HEAD), SPECIAL	
164	3-364-151-01	WASHER	
165	A-3220-610-A	MECHANISM DECK ASSY	
166	3-017-302-01	BELT (25)	
167	3-026-636-01	FLYWHEEL (F)	
168	3-701-437-21	WASHER	
HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

SECTION 8
ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		KEY BOARD	
		**********	
	1-694-780-11	CONDUCTIVE BOARD, CONNECTION	
*	3-223-797-01	PLATE (LCD), LIGHT GUIDE	
*	3-223-798-01	HOLDER (LCD)	
*	3-223-799-01	PLATE (LCD), GROUND	
*	3-223-800-01	REFLECTOR SHEET (LCD) (CA600/CA600X)	
	3-231-293-01	REFLECTOR SHEET (LCD/V) (CA600V)	
	3-231-648-01	SHEET (SHIELD) (CA600V)	
	3-231-770-01	SPACER (WINDOW)	
		< CAPACITOR >	
C952	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C953	1-115-412-11	CERAMIC CHIP 680PF 5% 25V	
C956	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V	
C961	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C962	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C971	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >	
CN901	1-794-065-22	PLUG, CONNECTOR 14P	
		< DIODE >	
D902	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D903	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D904	8-719-056-82	DIODE UDZ-TE-17-6.2B	
D906	8-719-056-93	DIODE UDZ-TE-17-18B	
D908	8-719-158-15	DIODE UDZ-TE-17-5.6B (CA600V)	
D908	8-719-976-99	DIODE UDZ-TE-17-5.1B (CA600/CA600X)	
D971	8-719-056-82	DIODE UDZ-TE-17-6.2B	
		< IC >	
IC900	8-759-826-21	IC LC75874W	
IC971	8-749-012-25	IC RS-170-TU	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-804-292-21	DISPLAY PANEL, LIQUID CRYSTAL (CA600)	
LCD901	1-804-292-41	DISPLAY PANEL, LIQUID CRYSTAL (CA600X)	
LCD901	1-804-293-11	DISPLAY PANEL, LIQUID CRYSTAL (CA600V)	

Ref. No.	Part No.	Description	Remark
		< LED >	
LED900	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION)	(CA600V/CA600X)
LED900	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION)	(CA600)
LED901	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION)	(CA600V/CA600X)
LED901	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION)	(CA600)
LED902	8-719-082-81	LED LBM676-J2K2 (MBP)	
LED903	8-719-082-81	LED LBM676-J2K2 (EQ7)	
LED905	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	(CA600/CA600X)
LED905	8-719-084-37	LED NSSB440-WRS-THR (LCD BACK LIGHT)	(CA600V)
LED906	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	(CA600/CA600X)
LED906	8-719-084-37	LED NSSB440-WRS-THR (LCD BACK LIGHT)	(CA600V)
LED909	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	(CA600/CA600X)
LED910	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT)	(CA600/CA600X)
LED913	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION)	(CA600V/CA600X)
LED913	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION)	(CA600)
LED914	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION)	(CA600V/CA600X)
LED914	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION)	(CA600)
		< SWITCH >	
LSW901	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (OFF)	(CA600V/CA600X)
LSW901	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (OFF)	(CA600)
LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU)	(CA600V/CA600X)
LSW902	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (MENU)	(CA600)
LSW903	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	(CA600V/CA600X)
LSW903	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	(CA600)

KEY

Ref. No.	Part No.	Description	Remark
LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MODE ◄II►) (CA600V/CA600X)	
LSW904	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (MODE ◄II►) (CA600)	
LSW905	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (CA600V/CA600X)	
LSW905	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (CA600)	
LSW906	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER) (CA600V/CA600X)	
LSW906	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (ENTER) (CA600)	
LSW907	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (S, SCROLL) (CA600V/CA600X)	
LSW907	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (S, SCROLL) (CA600)	
LSW908	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (PTY, D, DISPLAY) (CA600V/CA600X)	
LSW908	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (PTY, D, DISPLAY) (CA600)	
LSW909	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (LIST) (CA600V/CA600X)	
LSW909	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (LIST) (CA600)	
LSW910	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (AF) (CA600V/CA600X)	
LSW910	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (AF) (CA600)	
LSW911	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (TA) (CA600V/CA600X)	
LSW911	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (TA) (CA600)	
LSW914	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SHUF, 6) (CA600V/CA600X)	
LSW914	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (SHUF, 6) (CA600)	
LSW915	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (5) (CA600V/CA600X)	
LSW915	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (5) (CA600)	
LSW916	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (4) (CA600V/CA600X)	
LSW916	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (4) (CA600)	
LSW917	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (3, REP) (CA600V/CA600X)	
LSW917	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (3, REP) (CA600)	
LSW918	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (2) (CA600V/CA600X)	
LSW918	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (2) (CA600)	
LSW919	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (1) (CA600V/CA600X)	
LSW919	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (1) (CA600)	
		< TRANSISTOR >	
Q901	8-729-904-75	TRANSISTOR DTD114EK-T-146 (CA600)	
Q902	8-729-904-75	TRANSISTOR DTD114EK-T-146 (CA600)	
Q905	8-729-904-75	TRANSISTOR DTD114EK-T-146 (CA600V)	
Q906	8-729-904-75	TRANSISTOR DTD114EK-T-146 (CA600V)	
		< RESISTOR >	
R902	1-216-819-11	METAL CHIP 680 5%	1/16W
R903	1-216-819-11	METAL CHIP 680 5%	1/16W
R904	1-216-819-11	METAL CHIP 680 5%	1/16W
R905	1-216-821-11	METAL CHIP 1K 5%	1/16W
R906	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R907	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R908	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R909	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R910	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R911	1-216-864-11	SHORT 0	
R912	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R913	1-216-833-11	METAL CHIP 10K 5%	1/16W
R914	1-216-819-11	METAL CHIP 680 5%	1/16W
R915	1-216-819-11	METAL CHIP 680 5%	1/16W
R916	1-216-821-11	METAL CHIP 1K 5%	1/16W
R917	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R918	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R919	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R920	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R921	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R922	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R923	1-216-833-11	METAL CHIP 10K 5%	1/16W
R924	1-216-037-00	METAL CHIP 330 5%	1/10W
R925	1-216-864-11	SHORT 0 (CA600V/CA600X)	
R926	1-216-819-11	METAL CHIP 680 5%	1/16W
R928	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R928	1-216-029-00	METAL CHIP 150 5%	1/10W (CA600V/CA600X)
R929	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R930	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R930	1-216-029-00	METAL CHIP 150 5%	1/10W (CA600V/CA600X)
R931	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R932	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R932	1-216-029-00	METAL CHIP 150 5%	1/10W (CA600V/CA600X)
R933	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R934	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R934	1-216-029-00	METAL CHIP 150 5%	1/10W (CA600V/CA600X)
R935	1-216-025-11	RES-CHIP 100 5%	1/10W (CA600)
R936	1-216-031-00	METAL CHIP 180 5%	1/10W
R937	1-216-031-00	METAL CHIP 180 5%	1/10W (CA600)
R942	1-216-037-00	METAL CHIP 330 5%	1/10W
R943	1-216-031-00	METAL CHIP 180 5%	1/10W
R944	1-216-029-00	METAL CHIP 150 5%	1/10W
R945	1-216-029-00	METAL CHIP 150 5%	1/10W
R946	1-216-029-00	METAL CHIP 150 5%	1/10W (CA600)
R946	1-216-031-00	METAL CHIP 180 5%	1/10W (CA600V/CA600X)
R948	1-216-023-00	METAL CHIP 82 5%	1/10W (CA600V)

KEY MAIN

Ref. No.	Part No.	Description			Remark
R948	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600/CA600X)
R950	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600/CA600X)
R952	1-216-864-11	SHORT	0 (CA600/CA600X)		
R953	1-216-025-00	METAL CHIP	100	5%	1/10W (CA600V)
R954	1-216-809-11	METAL CHIP	100	5%	1/16W
R955	1-216-809-11	METAL CHIP	100	5%	1/16W
R956	1-216-809-11	METAL CHIP	100	5%	1/16W
R957	1-216-841-11	METAL CHIP	47K	5%	1/16W
R958	1-216-031-00	METAL CHIP	180	5%	1/10W
R959	1-216-031-00	METAL CHIP	180	5%	1/10W
R960	1-216-857-11	METAL CHIP	1M	5%	1/16W
R961	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R962	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R963	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R966	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600)
R967	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600)
R968	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600)
R969	1-216-023-00	METAL CHIP	82	5%	1/10W (CA600V)
R969	1-216-027-00	METAL CHIP	120	5%	1/10W (CA600/CA600X)
R971	1-216-027-00	METAL CHIP	120	5%	1/10W (CA600/CA600X)
R972	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R978	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600)
R978	1-216-031-00	METAL CHIP	180	5%	1/10W (CA600V/CA600X)
R979	1-216-029-00	METAL CHIP	150	5%	1/10W (CA600)
R980	1-216-027-00	METAL CHIP	120	5%	1/10W
R981	1-216-027-00	METAL CHIP	120	5%	1/10W (CA600)
R982	1-216-027-00	METAL CHIP	120	5%	1/10W
R983	1-216-027-00	METAL CHIP	120	5%	1/10W (CA600)
R984	1-216-027-00	METAL CHIP	120	5%	1/10W
R985	1-216-027-00	METAL CHIP	120	5%	1/10W (CA600)
R986	1-216-027-00	METAL CHIP	120	5%	1/10W
R987	1-216-027-00	METAL CHIP	120	5%	1/10W (CA600)
		< ROTARY ENCODER >			
RE901	1-476-507-11	ENCODER, ROTARY (VOLUME CONTROLL)			
		< SWITCH >			
S902	1-786-175-21	SWITCH, TACT (WITH LED) (▶▶I ▶▶ SEEK +)			
S903	1-786-175-21	SWITCH, TACT (WITH LED) (I◀◀ ◀◀ SEEK –)			
S904	1-786-175-21	SWITCH, TACT (WITH LED) (DICS/PRESET +)			
S905	1-786-175-21	SWITCH, TACT (WITH LED) (DICS/PRESET –)			
S906	1-786-175-21	SWITCH, TACT (WITH LED) (EQ7)			

Ref. No.	Part No.	Description			Remark
S907	1-786-175-21	SWITCH, TACT (WITH LED) (MBP)			
**********					
*	A-3326-818-A	MAIN BOARD, COMPLETE (CA600)			
*	A-3326-823-A	MAIN BOARD, COMPLETE (CA600X)			
*	A-3326-829-A	MAIN BOARD, COMPLETE (CA600V)			
		**********			
*	3-040-998-01	BRACKET (IC)			
*	3-041-014-11	HEAT SINK (IS02P)			
*	3-041-262-01	HEAT SINK (REG/XR)			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR>			
C1	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C2	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C3	1-104-664-11	ELECT	47uF	20%	16V
C4	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C5	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C6	1-124-589-11	ELECT	47uF	20%	16V
C7	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C13	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C14	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C22	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C23	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C24	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C52	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C53	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C54	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C55	1-124-589-11	ELECT	47uF	20%	16V
C57	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C58	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C59	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C60	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C61	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C62	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C63	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C64	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C90	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C92	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C93	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C94	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C95	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C96	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C97	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C98	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C99	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C101	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C102	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C103	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C104	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C106	1-126-160-11	ELECT	1uF	20%	50V
C141	1-126-160-11	ELECT	1uF	20%	50V
C142	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C171	1-124-233-11	ELECT	10uF	20%	16V
C174	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C175	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C181	1-124-233-11	ELECT	10uF	20%	16V
C183	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C184	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C185	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C191	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C202	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C203	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C204	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C205	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C206	1-126-160-11	ELECT	1uF	20%	50V
C208	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C241	1-126-160-11	ELECT	1uF	20%	50V
C242	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C271	1-124-233-11	ELECT	10uF	20%	16V
C274	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C275	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C281	1-124-233-11	ELECT	10uF	20%	16V
C283	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C284	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C285	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-124-234-00	ELECT	22uF	20%	16V
C302	1-131-353-00	TANTALUM	10uF	10%	35V
C303	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C304	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C305	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C306	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C307	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C309	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C310	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C311	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C312	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C313	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C332	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C333	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C335	1-124-233-11	ELECT	10uF	20%	16V
C336	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C337	1-124-584-00	ELECT	100uF	20%	10V
C340	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C351	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C352	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C353	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C354	1-124-233-11	ELECT	10uF	20%	16V
C355	1-124-234-00	ELECT	22uF	20%	16V
C356	1-126-934-11	ELECT	220uF	20%	16V
C357	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C358	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C501	1-124-589-11	ELECT	47uF	20%	16V
C503	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C504	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C505	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C506	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C507	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C511	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C551	1-125-710-11	DOUBLE LAYER	0.1F		5.5V
C552	1-126-934-11	ELECT	220uF	20%	16V
C553	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C571	1-126-160-11	ELECT	1uF	20%	50V
C581	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C585	1-126-933-11	ELECT	100uF	20%	16V
C601	1-109-982-11	CERAMIC CHIP	1uF	10%	10V (CA600V)
C602	1-109-982-11	CERAMIC CHIP	1uF	10%	10V (CA600V)
C611	1-126-157-11	ELECT	10uF	20%	16V
C615	1-126-157-11	ELECT	10uF	20%	16V
C616	1-126-157-11	ELECT	10uF	20%	16V
C617	1-126-157-11	ELECT	10uF	20%	16V
C622	1-124-589-11	ELECT	47uF	20%	16V
C752	1-136-165-00	FILM	0.1uF	5%	50V
C754	1-124-233-11	ELECT	10uF	20%	16V
C755	1-126-157-11	ELECT	10uF	20%	16V
C781	1-107-885-31	ELECT	3300uF	20%	16V
C782	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C783	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C785	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C902	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C904	1-164-489-11	CERAMIC	0.22uF	10%	16V
C905	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C907	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C908	1-163-263-00	CERAMIC CHIP	330PF	5%	50V
C909	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

< CONNECTOR >

CN301	1-785-694-11	CONNECTOR, FFC/FPC 7P	
* CN351	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P	
CN581	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
CN701	1-784-456-11	CONNECTOR, FFC/FPC 14P	
CN781	1-794-070-12	PIN, CONNECTOR (ISO)	

< JACK >

CNJ151	1-774-699-12	JACK, PIN 4P	(AUDIO OUT REAR, BUS AUDIO IN)

< DIODE >

D1	8-719-056-65	DIODE	1SS372-TE85L
D51	8-719-073-01	DIODE	MA111-TX
D55	8-719-073-01	DIODE	MA111-TX
D90	8-719-073-01	DIODE	MA111-TX
D91	8-719-073-01	DIODE	MA111-TX
D92	8-719-976-99	DIODE	UDZ-TE-17-5.1B
D351	8-719-977-22	DIODE	UDZ-TE-17-9.1B
D352	8-719-970-02	DIODE	1SR139-400T-32
D502	8-719-056-83	DIODE	UDZ-TE-17-6.8B
D552	8-719-067-56	DIODE	MA112-TX
D553	8-719-073-01	DIODE	MA111-TX
D581	8-719-056-93	DIODE	UDZ-TE-17-18B
D582	8-719-056-82	DIODE	UDZ-TE-17-6.2B
D585	8-719-072-70	DIODE	MA2ZD14001S0
D586	8-719-056-93	DIODE	UDZ-TE-17-18B
D601	8-719-056-88	DIODE	UDZ-TE-17-11B (CA600V)
D610	8-719-970-02	DIODE	1SR139-400T-32
D611	8-719-970-02	DIODE	1SR139-400T-32
D614	8-719-970-02	DIODE	1SR139-400T-32

MAIN

Ref. No.	Part No.	Description	Remark
D622	8-719-073-01	DIODE MA111-TX	
D701	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D702	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D703	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D704	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D705	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D706	8-719-056-93	DIODE UDZ-TE-17-18B	
D707	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D708	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D709	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D710	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D711	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D712	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D721	8-719-079-42	DIODE 1ZB22 (TPA3)	
D722	8-719-079-42	DIODE 1ZB22 (TPA3)	
D723	8-719-079-42	DIODE 1ZB22 (TPA3)	
D724	8-719-079-42	DIODE 1ZB22 (TPA3)	
D731	8-719-079-42	DIODE 1ZB22 (TPA3)	
D732	8-719-079-42	DIODE 1ZB22 (TPA3)	
D733	8-719-079-42	DIODE 1ZB22 (TPA3)	
D734	8-719-079-42	DIODE 1ZB22 (TPA3)	
D781	8-719-049-38	DIODE 1N5404TU	
		< IC >	
IC51	8-759-492-59	IC SAA6588T-118	
IC90	8-759-100-96	IC uPC4558G2-E1	
IC301	8-752-079-78	IC CXA2509AQ-T4	
IC331	8-759-827-13	IC TDA7406T	
IC351	8-759-527-33	IC LB1930M-TLM	
IC501	8-759-828-85	IC MN101C49KTF	
IC551	8-759-682-69	IC XC61CN4302MR	
IC581	8-759-096-16	IC MM1175XFF	
IC611	8-759-661-47	IC BA4908-V3	
IC751	8-759-827-14	IC TA8268AH	
		< JACK >	
J1	1-815-185-11	JACK (ANT) (FM/AM ANTENNA IN)	
J561	1-566-822-41	JACK (REMOTE IN)	
		< SHORT >	
JC3	1-216-295-11	SHORT 0	
JC4	1-216-296-11	SHORT 0	
JC5	1-216-296-11	SHORT 0	
JC6	1-216-296-11	SHORT 0	
JC7	1-216-296-11	SHORT 0	
JC8	1-216-296-11	SHORT 0	
JC9	1-216-296-11	SHORT 0	
JC10	1-216-295-11	SHORT 0	
JC11	1-216-295-11	SHORT 0	
JC12	1-216-296-11	SHORT 0	
JC14	1-216-296-11	SHORT 0	
JC15	1-216-296-11	SHORT 0	
JC17	1-216-296-11	SHORT 0	
JC18	1-216-295-11	SHORT 0	
JC51	1-216-296-11	SHORT 0	
JC53	1-216-296-11	SHORT 0	
JC90	1-216-295-11	SHORT 0	
JC92	1-216-295-11	SHORT 0	
JC301	1-216-295-11	SHORT 0	
JC302	1-216-295-11	SHORT 0	
JC331	1-216-295-11	SHORT 0	
JC332	1-216-296-11	SHORT 0	
JC333	1-216-296-11	SHORT 0	
JC351	1-216-295-11	SHORT 0	
JC352	1-216-295-11	SHORT 0	
JC353	1-216-295-11	SHORT 0	
JC354	1-216-295-11	SHORT 0	
JC500	1-216-295-11	SHORT 0	
JC502	1-216-296-11	SHORT 0	
JC558	1-216-295-11	SHORT 0	
JC565	1-216-295-11	SHORT 0	
JC581	1-216-295-11	SHORT 0	
JC588	1-216-295-11	SHORT 0	
JC622	1-216-295-11	SHORT 0	
JC623	1-216-295-11	SHORT 0	
JC751	1-216-296-11	SHORT 0	
JC752	1-216-296-11	SHORT 0	
JC753	1-216-295-11	SHORT 0	
JC754	1-216-296-11	SHORT 0	
JC755	1-216-296-11	SHORT 0	
JC759	1-216-296-11	SHORT 0	
JC761	1-216-295-11	SHORT 0	
JC762	1-216-295-11	SHORT 0	
JC763	1-216-296-11	SHORT 0	
JC764	1-216-296-11	SHORT 0	
JC765	1-216-295-11	SHORT 0	
JC766	1-216-296-11	SHORT 0	
JC767	1-216-295-11	SHORT 0	
JC902	1-216-295-11	SHORT 0	
		< COIL >	
L501	1-410-501-11	INDUCTOR 2.2uH	
L502	1-410-501-11	INDUCTOR 2.2uH	
L781	1-419-476-11	INDUCTOR 250uH	
		< TRANSISTOR >	
Q90	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q91	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q171	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q181	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q271	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q281	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q351	8-729-015-11	TRANSISTOR 2SD1802FAST-TL	
Q352	8-729-047-76	TRANSISTOR FMC2A-T148	
Q353	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q354	8-729-106-60	TRANSISTOR 2SB1132-T100-R	
Q551	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q571	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q581	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q583	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q601	8-729-106-60	TRANSISTOR 2SB1132-T100-R	(CA600/CA600X)
Q602	8-729-900-53	TRANSISTOR DTC114EKA-T146	(CA600/CA600X)
Q604	8-729-423-99	TRANSISTOR 2SD2137-OP-TA (CA600V)	

MAIN

Ref. No.	Part No.	Description			Remark
Q605	8-729-047-76	TRANSISTOR	FMC2A-T148 (CA600V)		
Q621	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q622	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q631	8-729-047-76	TRANSISTOR	FMC2A-T148		
		< RESISTOR >			
R1	1-216-025-11	RES-CHIP	100	5%	1/10W
R2	1-216-025-11	RES-CHIP	100	5%	1/10W
R3	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-089-11	RES-CHIP	47K	5%	1/10W
R13	1-216-097-11	RES-CHIP	100K	5%	1/10W
R21	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R51	1-216-025-11	RES-CHIP	100	5%	1/10W
R52	1-216-025-11	RES-CHIP	100	5%	1/10W
R53	1-216-113-00	METAL CHIP	470K	5%	1/10W
R54	1-216-049-11	RES-CHIP	1K	5%	1/10W
R55	1-216-081-00	METAL CHIP	22K	5%	1/10W
R56	1-216-041-00	METAL CHIP	470	5%	1/10W
R59	1-216-001-00	METAL CHIP	10	5%	1/10W
R60	1-216-001-00	METAL CHIP	10	5%	1/10W
R91	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R92	1-216-025-11	RES-CHIP	100	5%	1/10W
R93	1-216-097-11	RES-CHIP	100K	5%	1/10W
R95	1-216-121-11	RES-CHIP	1M	5%	1/10W
R96	1-216-025-11	RES-CHIP	100	5%	1/10W
R97	1-216-073-00	METAL CHIP	10K	5%	1/10W
R98	1-216-073-00	METAL CHIP	10K	5%	1/10W
R99	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R100	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R101	1-216-041-00	METAL CHIP	470	5%	1/10W
R102	1-216-109-00	METAL CHIP	330K	5%	1/10W
R103	1-216-077-00	RES-CHIP	15K	5%	1/10W
R104	1-216-079-00	METAL CHIP	18K	5%	1/10W
R141	1-216-073-00	METAL CHIP	10K	5%	1/10W
R142	1-216-049-11	RES-CHIP	1K	5%	1/10W
R170	1-216-025-11	RES-CHIP	100	5%	1/10W
R171	1-216-025-11	RES-CHIP	100	5%	1/10W
R175	1-216-089-11	RES-CHIP	47K	5%	1/10W
R180	1-216-025-11	RES-CHIP	100	5%	1/10W
R181	1-216-025-11	RES-CHIP	100	5%	1/10W
R185	1-216-089-11	RES-CHIP	47K	5%	1/10W
R191	1-249-437-11	CARBON	47K	5%	1/4W
R192	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R201	1-216-041-00	METAL CHIP	470	5%	1/10W
R202	1-216-109-00	METAL CHIP	330K	5%	1/10W
R203	1-216-077-00	RES-CHIP	15K	5%	1/10W
R204	1-216-079-00	METAL CHIP	18K	5%	1/10W
R241	1-216-073-00	METAL CHIP	10K	5%	1/10W
R242	1-216-049-11	RES-CHIP	1K	5%	1/10W
R270	1-216-025-11	RES-CHIP	100	5%	1/10W
R271	1-216-025-11	RES-CHIP	100	5%	1/10W
R275	1-216-089-11	RES-CHIP	47K	5%	1/10W
R280	1-216-025-11	RES-CHIP	100	5%	1/10W
R281	1-216-025-11	RES-CHIP	100	5%	1/10W
R285	1-216-089-11	RES-CHIP	47K	5%	1/10W
R301	1-216-079-00	METAL CHIP	18K	5%	1/10W
R302	1-216-097-11	RES-CHIP	100K	5%	1/10W
R303	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R304	1-216-077-00	RES-CHIP	15K	5%	1/10W
R305	1-216-001-00	METAL CHIP	10	5%	1/10W
R306	1-216-105-00	RES-CHIP	220K	5%	1/10W
R331	1-249-393-11	CARBON	10	5%	1/4W
R332	1-216-089-11	RES-CHIP	47K	5%	1/10W
R335	1-216-025-11	RES-CHIP	100	5%	1/10W
R336	1-216-025-11	RES-CHIP	100	5%	1/10W
R351	1-216-049-11	RES-CHIP	1K	5%	1/10W
R352	1-249-383-11	CARBON	1.5	5%	1/6W
R353	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R500	1-247-807-31	CARBON	100	5%	1/4W
R501	1-247-807-31	CARBON	100	5%	1/4W
R502	1-216-049-11	RES-CHIP	1K	5%	1/10W
R507	1-216-049-11	RES-CHIP	1K	5%	1/10W
R508	1-216-049-11	RES-CHIP	1K	5%	1/10W
R509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R511	1-216-073-00	METAL CHIP	10K	5%	1/10W
R513	1-216-073-00	METAL CHIP	10K	5%	1/10W
R514	1-216-097-11	RES-CHIP	100K	5%	1/10W
R515	1-216-097-11	RES-CHIP	100K	5%	1/10W
R516	1-216-097-11	RES-CHIP	100K	5%	1/10W
R517	1-216-097-11	RES-CHIP	100K	5%	1/10W
R518	1-216-097-11	RES-CHIP	100K	5%	1/10W
R519	1-216-097-11	RES-CHIP	100K	5%	1/10W
R520	1-216-097-11	RES-CHIP	100K	5%	1/10W
R521	1-216-049-11	RES-CHIP	1K	5%	1/10W
R522	1-216-049-11	RES-CHIP	1K	5%	1/10W
R523	1-216-049-11	RES-CHIP	1K	5%	1/10W
R526	1-216-097-11	RES-CHIP	100K	5%	1/10W
R527	1-216-097-11	RES-CHIP	100K	5%	1/10W
R528	1-216-097-11	RES-CHIP	100K	5%	1/10W
R529	1-216-097-11	RES-CHIP	100K	5%	1/10W
R530	1-216-097-11	RES-CHIP	100K	5%	1/10W
R531	1-216-097-11	RES-CHIP	100K	5%	1/10W
R532	1-216-097-11	RES-CHIP	100K	5%	1/10W
R533	1-216-097-11	RES-CHIP	100K	5%	1/10W
R535	1-216-097-11	RES-CHIP	100K	5%	1/10W
R538	1-216-033-00	METAL CHIP	220	5%	1/10W
R539	1-216-033-00	METAL CHIP	220	5%	1/10W
R540	1-216-097-11	RES-CHIP	100K	5%	1/10W
R543	1-216-097-11	RES-CHIP	100K	5%	1/10W
R544	1-216-295-11	SHORT	0		
R545	1-216-025-11	RES-CHIP	100	5%	1/10W
R547	1-247-807-31	CARBON	100	5%	1/4W
R550	1-216-089-11	RES-CHIP	47K	5%	1/10W
R551	1-216-097-11	RES-CHIP	100K	5%	1/10W
R552	1-216-097-11	RES-CHIP	100K	5%	1/10W
R555	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R556	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R557	1-247-807-31	CARBON	100	5%	1/4W
R558	1-216-073-00	METAL CHIP	10K	5%	1/10W
R559	1-216-073-00	METAL CHIP	10K	5%	1/10W
R560	1-247-807-31	CARBON	100	5%	1/4W
R561	1-247-807-31	CARBON	100	5%	1/4W
R562	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R563	1-216-025-11	RES-CHIP	100	5%	1/10W

MAIN **SUB**

Ref. No.	Part No.	Description			Remark
R564	1-216-025-11	RES-CHIP	100	5%	1/10W
R565	1-216-097-11	RES-CHIP	100K	5%	1/10W
R566	1-216-097-11	RES-CHIP	100K	5%	1/10W
R567	1-216-097-11	RES-CHIP	100K	5%	1/10W
R568	1-216-097-11	RES-CHIP	100K	5%	1/10W
R570	1-216-097-11	RES-CHIP	100K	5%	1/10W
R571	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R572	1-216-089-11	RES-CHIP	47K	5%	1/10W
R573	1-249-425-11	CARBON	4.7K	5%	1/4W
R576	1-216-097-11	RES-CHIP	100K	5%	1/10W
R577	1-216-089-11	RES-CHIP	47K	5%	1/10W
R578	1-216-097-11	RES-CHIP	100K	5%	1/10W (CA600/CA600X)
R579	1-216-097-11	RES-CHIP	100K	5%	1/10W (CA600/CA600V)
R580	1-216-025-11	RES-CHIP	100	5%	1/10W
R581	1-216-049-11	RES-CHIP	1K	5%	1/10W
R582	1-216-077-00	RES-CHIP	15K	5%	1/10W
R583	1-216-025-11	RES-CHIP	100	5%	1/10W
R586	1-216-073-00	METAL CHIP	10K	5%	1/10W
R587	1-216-073-00	METAL CHIP	10K	5%	1/10W
R588	1-216-049-11	RES-CHIP	1K	5%	1/10W
R589	1-216-089-11	RES-CHIP	47K	5%	1/10W
R595	1-216-097-11	RES-CHIP	100K	5%	1/10W
R600	1-216-037-00	METAL CHIP	330	5%	1/10W (CA600V)
R603	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CA600/CA600X)
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W (CA600/CA600X)
R606	1-249-400-11	CARBON	39	5%	1/4W (CA600/CA600X)
R607	1-249-400-11	CARBON	39	5%	1/4W (CA600/CA600X)
R608	1-249-400-11	CARBON	39	5%	1/4W (CA600/CA600X)
R609	1-249-389-11	CARBON	4.7	5%	1/4W (CA600V)
R609	1-249-400-11	CARBON	39	5%	1/4W (CA600/CA600X)
R625	1-216-017-00	RES-CHIP	47	5%	1/10W
R631	1-216-025-11	RES-CHIP	100	5%	1/10W
R632	1-216-033-00	RES-CHIP	220	5%	1/10W
R633	1-216-033-00	RES-CHIP	220	5%	1/10W
R634	1-216-033-00	RES-CHIP	220	5%	1/10W
R635	1-216-033-00	RES-CHIP	220	5%	1/10W
R636	1-216-033-00	RES-CHIP	220	5%	1/10W
R701	1-216-025-11	RES-CHIP	100	5%	1/10W
R702	1-216-025-11	RES-CHIP	100	5%	1/10W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R753	1-249-429-11	CARBON	10K	5%	1/4W
R756	1-216-198-00	RES-CHIP	1K	5%	1/8W
R757	1-216-198-00	RES-CHIP	1K	5%	1/8W
R758	1-216-198-00	RES-CHIP	1K	5%	1/8W
R760	1-216-198-00	RES-CHIP	1K	5%	1/8W
R901	1-249-417-11	CARBON	1K	5%	1/4W

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S551	1-692-431-21	SWITCH, TACTILE (RESET)	
S552	1-771-540-11	SWITCH, PUSH (1 KEY) (NOSE DETECT)	
		< THERMISTOR >	
TH501	1-803-350-21	THERMISTOR, POSITIVE	
		< TUNER UNIT >	
TU1	A-3282-061-A	FM/AM TUNER UNIT (TUX-020)	
		< VIBRATOR >	
X51	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz)	
X501	1-781-294-21	VIBRATOR, CRYSTAL (18.432MHz)	
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	
**********			
*	1-676-603-21	SUB BOARD	
		**********	
	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE)	
		< CONNECTOR >	
CNP801	1-794-064-12	SOCKET, CONNECTOR 14P	
		< LED >	
LED801	8-719-038-05	LED CL-190FG-CD-T (TAPE DECK ILLUMINATION)	(CA600)
LED801	8-719-061-16	LED CL-190SR-CD-T (TAPE DECK ILLUMINATION)	(CA600V/CA600X)
		< SWITCH >	
LSW801	1-771-883-11	SWITCH, TACTILE (WITH LED) (⏏)	(CA600V/CA600X)
LSW801	1-786-113-11	SWITCH, TACT (WITH LED) (⏏)	(CA600)
**********			
		MISCELLANEOUS	
		**********	
3	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE)	
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S) (POWER)	(South European)
15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)	
64	1-694-780-11	CONDUCTIVE BOARD, CONNECTION	
F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	
HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
LCD901	1-804-292-21	DISPLAY PANEL, LIQUID CRYSTAL (CA600)	
LCD901	1-804-292-41	DISPLAY PANEL, LIQUID CRYSTAL (CA600X)	
LCD901	1-804-293-11	DISPLAY PANEL, LIQUID CRYSTAL (CA600V)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#2	7-621-772-20	SCREW +B 2X5	
#3	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

Ref. No.	Part No.	Description	Remark
#6	7-624-104-04	STOP RING 2.0, TYPE -E	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
#8	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#9	7-685-795-09	SCREW +PTT 2.6X12 (S)	

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ACCESSORIES & PACKING MATERIALS
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	3-227-102-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH)
	3-227-102-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, GREEK, RUSSIAN)
	3-227-102-31	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (CA600/CA600X)
	3-227-103-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH)
	3-227-103-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, GREEK, RUSSIAN)
	3-227-103-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (CA600/CA600X)
	X-3378-490-1	CASE (PANEL) ASSY (for FRONT PANEL)

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PARTS FOR INSTALLATION AND CONNECTIONS
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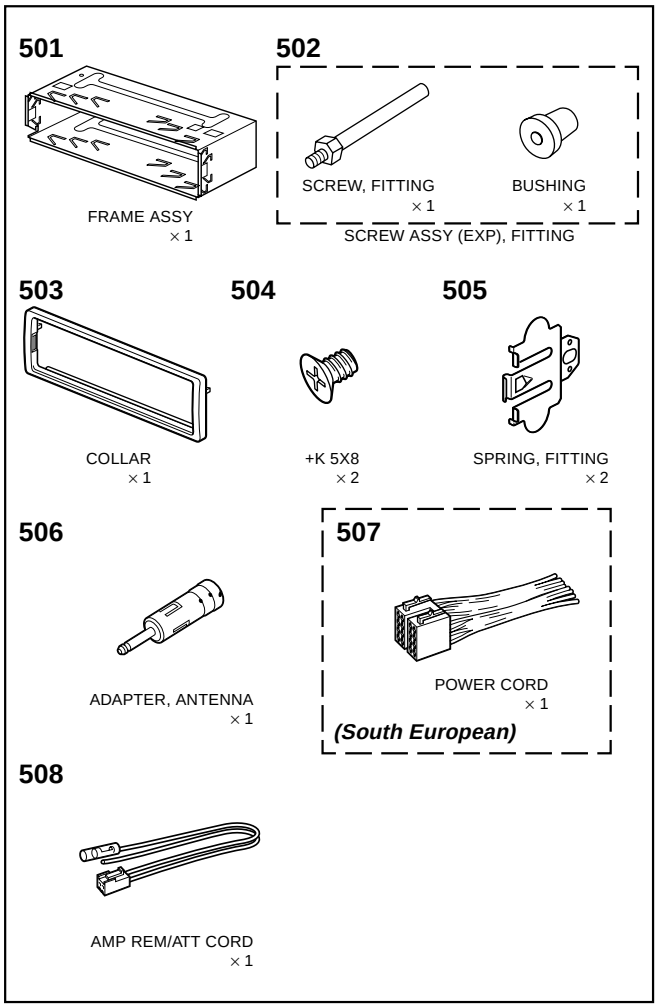
501	X-3373-602-1	FRAME ASSY
502	X-3366-405-1	SCREW ASSY (EXP), FITTING
503	3-040-979-01	COLLAR
504	3-934-325-01	SCREW, +K (5X8) TAPPING
505	3-233-644-01	SPRING, FITTING
506	1-465-459-21	ADAPTER, ANTENNA
507	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S) (POWER) (South European)
508	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)



REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.05	Change of Part No. for SPRING, FITTING (ECN-CSA04727)
1.0	2001.02	New